

REGISTERED AS A NEWSPAPER.

PUBLISHED WEEKLY AT 42 CANNON ST., LONDON, E.C.4.

SUBSCRIPTION, WITH
DIARY 20/- PER ANNUM
SINGLE COPIES 9d.

No. 2148

MARCH 26, 1921.

VOL. XCIV.

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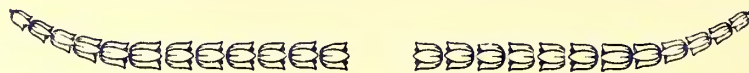
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All Glaxo tins are filled by weight, on accurately adjusted automatic weighers. The "new-style" 1/6 tin contains 5-oz., and the 5/- tin 20-oz. The "old-style" 1/6 tin contained 6-oz., and the 3/- tin 12-oz.

Glaxo in the new 5/- tin, therefore, costs exactly the same as in the old

3/- tin. This 5/- tin will in future be our "standard" tin.

The contents of the 1/6 tin have been reduced from 6-oz. to 5-oz. because it costs considerably more to pack 20-oz. of a product in four separate small tins than to pack the whole quantity in one large tin.

We would, in fact, have preferred to withdraw the 1/6 tin altogether. It is retained simply as a trial size, so that there shall be no necessity to spend 5/- in order to make a trial of Glaxo.

DISCOUNTS AS USUAL

as shown by Net Price List below. Slight alteration in value of Special Terms Orders and Quantities on which Carriage will be paid.

Retail Price.	Small Orders.	Order value not less than £6 1s. 7d.	Order value not less than £11 17s. 0d.
1/6 per tin	14/5 per doz.	14/- per doz.	13/8 per doz.
5/- " "	48/- " "	46/9½ " "	45/7 " "

The special terms for goods to the value of £6 1s. 7d. and upwards apply only when the Glaxo is ordered in *complete dozens*, with a *minimum of 2 dozen for the 1/6 size*. Carriage will be paid to the nearest railway station on goods to the value of not less than £3 16s. 10d. net.

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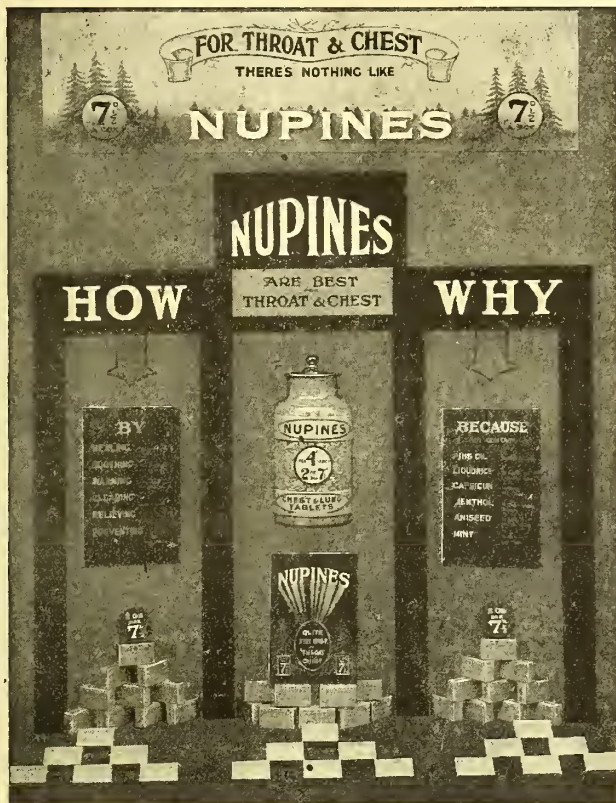
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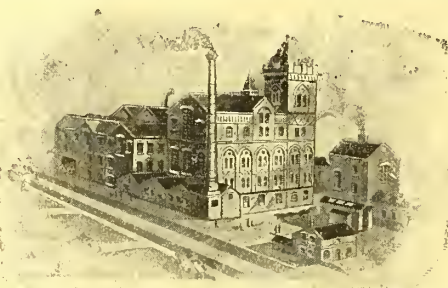
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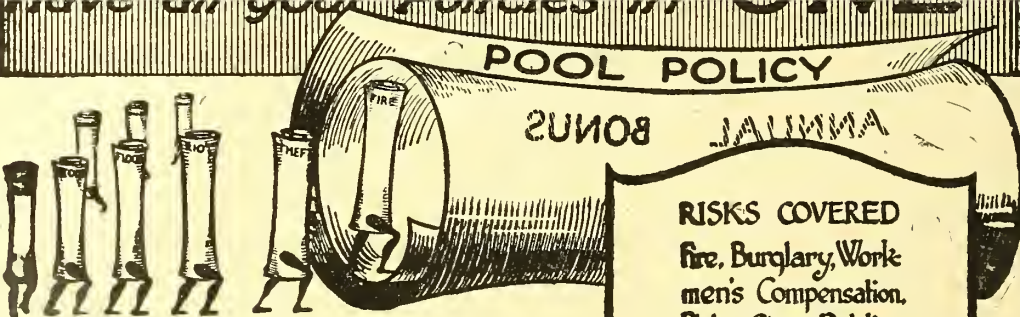
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ANNUAL BONUSES

Maw's



Page

March 26, 1921.

No. 493.

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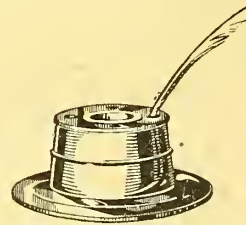
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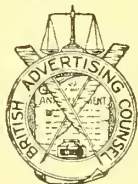
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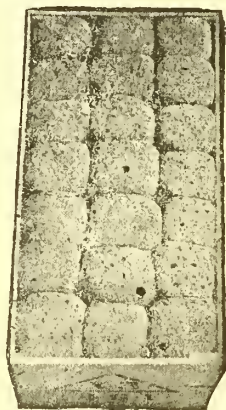
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60 "	" 7/6	
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30 "	" 10/6	

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Quality.

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170 "	1/-	
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120 "	2/6	
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1st Quality.

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" ROUND SHAPES 13/6 18/6 27/- 39/- 50/- 60/- doz.

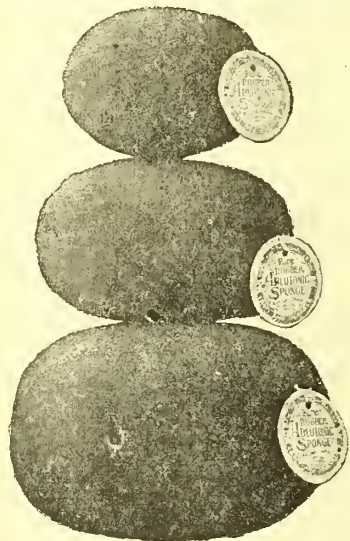
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Reconstruction!

We should like to repeat our statement of last week that our Drug and Chemical Laboratories and Box Factory, situated in Duke Street, were unaffected by the fire which took place on Tuesday, March 15, consequently we are in a position to supply all orders for Drugs, Pharmaceuticals, Chemicals, Pills, Tablets and Boxes.

Furthermore, we have been able through the courtesy of our neighbours, *Messrs. Evans Sons Lescher & Webb Ltd.*, to occupy premises at **58 HANOVER STREET, LIVERPOOL**, and have obtained stocks of the leading lines of Druggists' Sundries, Surgical Goods, Glass Bottles, Fancy Goods (Brushes, Combs, etc.), and are able to execute orders for them.

With respect to Patent Medicines and Proprietary Articles, we are not yet in a position to handle same, and shall be glad if our friends will do us the favour of obtaining these elsewhere for the present.

We should like briefly to express our thanks for the many kind letters and telegrams of sympathy received from all parts of the Kingdom.

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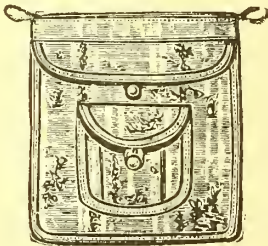
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AND

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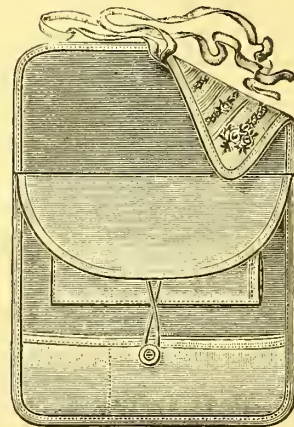
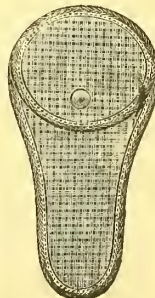
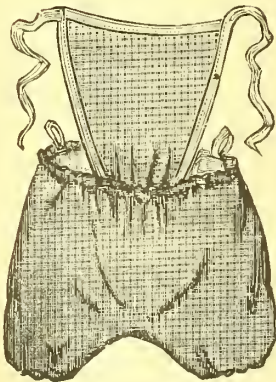
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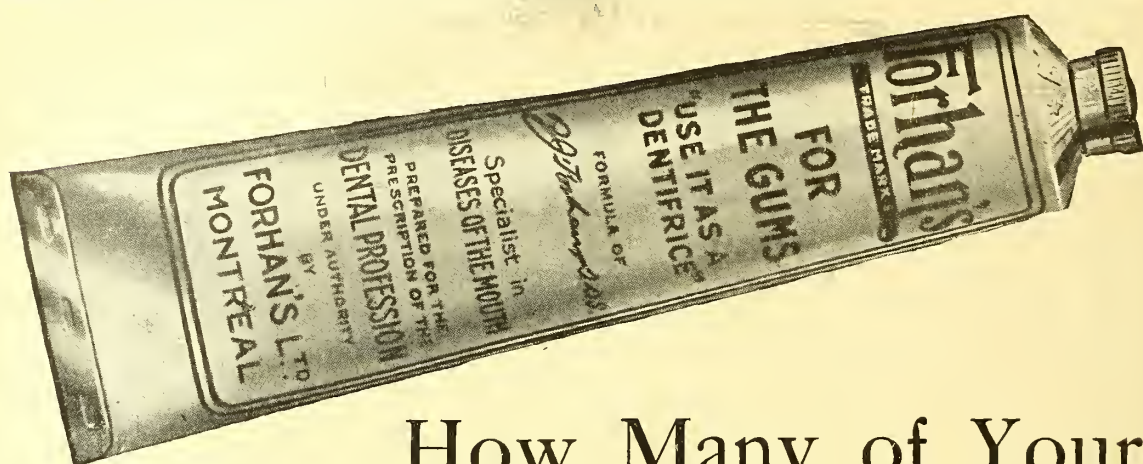
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THE Kerfoot quality in Effervescibles is well-known and widely appreciated. The prices of the various Salines illustrated on this page have been reduced, and in view of the uncertain advent and duration of the effervescible season, Pharmacists are advised to place their orders now before the "eleventh hour" rush begins.

¶ For terms see our monthly price list, a copy of which was recently posted to all Pharmacists in Great Britain.

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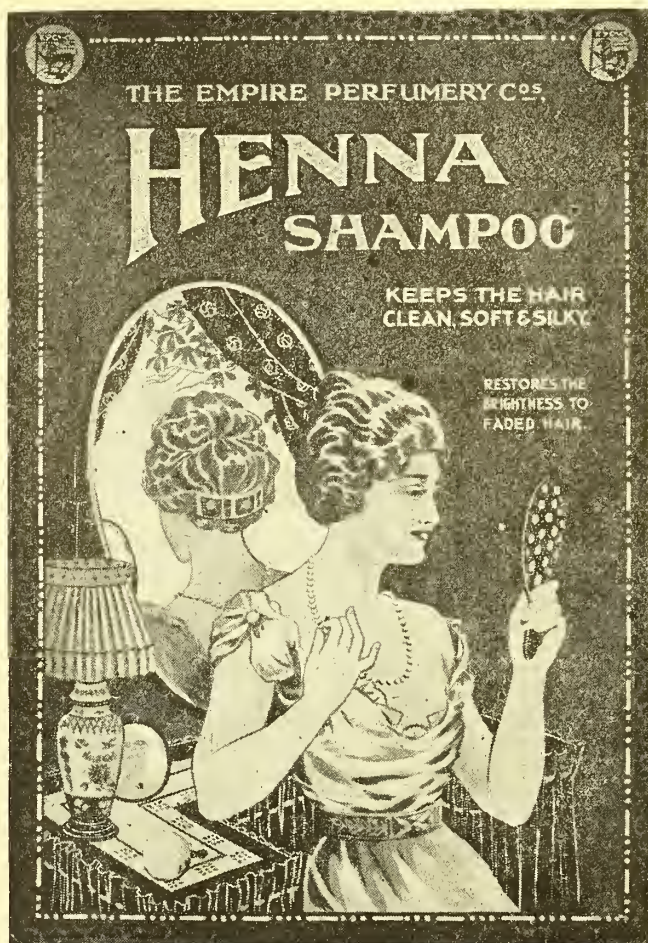
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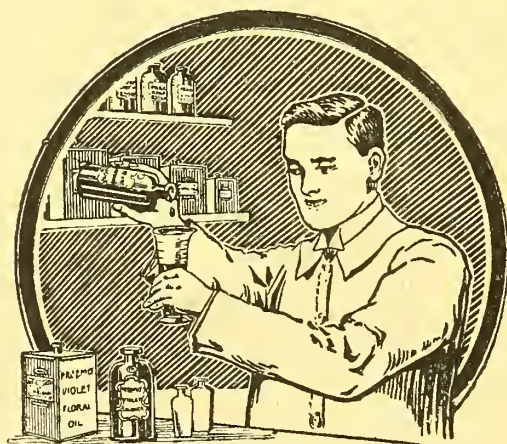
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PEPPERMINT OIL

We are at all times in position to quote c.i.f. Send us your inquiries by cable. We sell all brands, but, unless otherwise specified, we ship "J.M." Brand, which we sell under our guarantee that chemical analysis will prove it in every respect as pure as any.

Remember that we are entirely British - American owned and operated.

THE MUTUAL TRADERS

24 NAKAYAMATE - DORI, 2 CHOME,
KOBE, JAPAN.

Cable Address : "SIMSLAND."

Buy from the Actual Distillers.

EUCALYPTUS

OILS

B.P. & U.S.P. 60/65% 70%
75/80%

EUCALYPTUS
AMYGDALINA
EUCALYPTUS
CITRIODORA
EUCALYPTOL
(CINEOL)

We will quote you C.I.F. afloat or ex London Stocks.

GILLARD GORDON, LTD.

(Amalgamated with Burnside & Co.)

HEAD OFFICES - SYDNEY.

LONDON OFFICES:

7 Drapers Gardens, Throgmorton Avenue, London, E.C. 2

Telephone No. : London Wall 8237.

ESSENFLOUR PRODUCTS LTD.

MYSORE (S. INDIA)

*Distillers of Essential Oils and Manufacturers
of Perfumery Products*

AMBRETTE SEED OIL
CARDAMOM OIL
CALAMUS ROOT OIL
CORIANDER OIL
CINNAMON BARK OIL
CINNAMON LEAF OIL (a Speciality)
CLOVE OIL B.P.

DILL OIL (East Indian)
EUGENOL
GINGER OIL
NUTMEG OIL
PATCHOULY OIL
VETIVERT OIL (S. Indian)

Sole Agent for Europe—

K. B. MAVLANKAR

26/27 Hatton Garden, LONDON, E.C.1

and 29 Corporation Street, MANCHESTER.

1

DODGE & OLCOTT CO., 20 MARK LANE,
LONDON, E.C.3.

THE "D & O" BRAND

is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT,
SASSAFRAS, ETC.

BALSAMS of Copaiba, Peru, Tolu,
TONKA BEANS, Angosturas.

Phone—
CITY 2468.

Telegrams—
"EGDARF, FEN, LONDON."

"IRISH ELEGANCE"

[Regd.]

The Winning Perfume—Fragrance of Midsummer Roses.

In three sizes	Wholesale	Retail
Small ...	28/- doz.	3/6
Medium ...	48/- "	6/-
Large ...	168/- "	21/-

Usual Trade Terms.

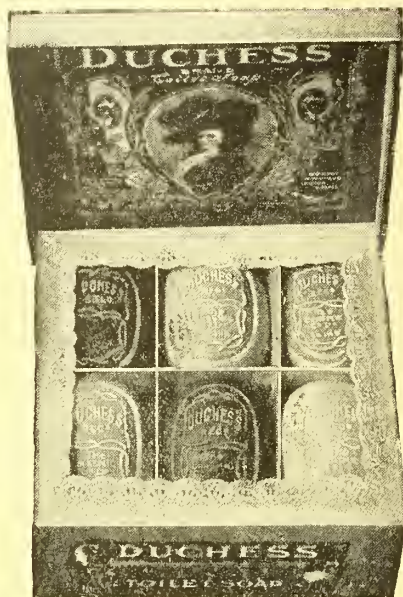
PRODUCT OF

The EVAN-WILLIAMS Co., Ltd.

18-18a Ogle Street, London, W. 1.

SHOWCARDS SUPPLIED.

An established favourite and ready seller.



"DUCHESS"

ASSORTED

TOILET SOAP

4½d. Tablets.

PRICE PROTECTED.

NO CUTTING.

SALE RESERVED
exclusively to Chemists

Ask us to quote for your "Own Name" soap.
We can please you in quality and price. Samples free.

ERASMIC Perfumers WARRINGTON.

JOHNSON'S BABY SOAP.

The Companion to the World-known
Antiseptic Toilet and Baby Powder

It is a perfectly bland, neutral soap, suited for either babies or grown-up people. It may be used in the same manner as an ordinary toilet soap with absolute confidence. The most delicate skins are those of the new-born baby or very young child. Johnson's Baby Soap originated in a desire by physicians and nurses for a soap suitable for the baby's skin.

BRITISH MADE.

Packed 3 tablets in box. Price 8/- per doz. tablets.

JOHNSON & JOHNSON, New Brunswick, NEW JERSEY, U.S.A.

Agents:

JOHN TIMPSON & CO., Ltd. 104/106 Golden Lane, LONDON, E.C. 1

Where Quality Reigns Supreme

OUR WEEKLY MESSAGE.

Think before you press wholesalers to create a demand for their lines.

Highly advertised lines mostly show a small margin of profit.

The consumption of toilet goods and medicines is limited; they are not consumed like food.

Do your share of introducing smart dependable goods and take the extra profit you badly need.

LITTLE & GOOD is the public demand to-day. Bulk does not attract—big prices frighten—these lines will tempt them.

POUDRE DE LUZY

10¹/₂d. RETAIL

In striking display boxes. 7/- dozen.

1 dozen Bonus Free with one Gross.



PERFUMES DE LUZY

5/- RETAIL

Each in dainty carton—Rose, Violette, Lily, Mimosa, Jasmin, etc.

40/- dozen.



Eau de Cologne De Luzy

2/9 RETAIL.

Average contents 1 oz. of a really good Cologne.

22/- dozen.



W. H. CALNAN & CO. LTD.
30-32 LUDGATE HILL, LONDON. E.C.4.

X Pediculus Capitis X

At the urgent request of several Medical Officers of Health, we undertook to produce a Shampoo Soap in tablet form that would instantly destroy Vermin and Nits found in great abundance on the heads of millions of children of the poor attending elementary schools in this country, and also to ensure that the Nits were at the same time eradicated by the simple operation of washing. This Soap we have now perfected, and can guarantee that after the first or second operation of Shampooing has been performed children's heads may be kept perfectly free from both the Vermin and Nits by washing the head once a week with our "DERBAC" SOAP and without the slightest injury to either skin or hair.

Tests have been carried out under the supervision of the Medical and Nursing Staff in one of the largest school clinics in this country with complete success.

"DERBAC" SOAP is sold at 6d. per tablet.

X SAPON SOAPS LTD., 24-25 KING WILLIAM
STREET, LONDON BRIDGE———E.C.4. X

Fanchette (Regd.) LIQUID FACE POWDER

A Charming Toilet Preparation.

Selling Price, **2/6** per bottle.

Retailers, Less 33½% Wholesalers, Less 33½% & 20%

Sole London Agents: **V. P. HOLLIDAY & Co.**

5 The Facade, Wightman Road, Harringay, N.4.

MANUFACTURERS:

HARRIES, Fanchette Toilet Preparations,

46 PARK CRESCENT MEWS WEST, W.1.



FIRST, AND STILL FIRST

THE BOX
MAY BE COPIED
BUT THE

CONTENTS ARE MATCHLESS.

**YOU WANT THE BEST
FOR YOUR CUSTOMERS.**

**THE ORIGINAL DAINTY HINGED
ALUMINIUM BOXES**

WITH FULL DIRECTIONS.

PER **5/-** DOZEN.

3 dozen at 4/9.

Manufactured by

SOLPORT BROS., LTD.

184-190 Goswell Road, LONDON, E.C.1

Obtainable through all Wholesale Houses.

Fitting a
SEMREH
BOTTLE CAP
is a
ONE-HANDED JOB.
A girl can do it
without previous
experience.
SELF-FIXING, TOO!
The VISCOS
Development Co., Ltd.,
BROMLEY, KENT.



FOR LARGE BUYERS.

TOOTH POWDERS

ALSO

Dental Creams, Vanishing Creams, Shampoo Powders, Pomade Hongroise, Brilliantines, Dry Shampoo (Liquid), Bay Rhums, Toilet Paraffins, Lime Creams, Shaving Sticks, and all Toilet Goods.

**LOW PRICES for
HIGH QUALITY.**

C. A. STOKES & CO., Ltd.

Manufacturing Chemists and Perfumers,

11 ECLIPSOL WORKS, BRISTOL.

A. GIDLOW & CO.

(ESTABLISHED 1896)

Broom Lane, Levenshulme, MANCHESTER.

MANUFACTURERS OF

SHAVING CREAMS

Packed in 1-lb., 2-lb., 7-lb. Boxes and 56-lb. Cases.
Also packed in Collapsible Tubes.

PROPRIETORS & MANUFACTURERS OF

RENARD'S POMADE HONGROISE

Also supplied in unlabelled Tubes and Bulk.

SAMPLES AND PRICES ON APPLICATION.

WHOLESALE ONLY.

Special Clearing Lines

**POCKET and
SHAVING MIRRORS**

BOUND IN LEATHERETTE

EXCEPTIONAL VALUE

Sample sets sent on approval provided you agree to return same within seven days.

FRANK BUCKLER, LTD.

CASTLE WORKS

TOTTENHAM, N.17

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

		Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP	-	10/-	1/-
A complexion soap.			
PROLACTUM	-	10/-	1/-
For the lips.			
PARSIDIUM JELLY	-	10/-	1/-
For wrinkles.			
ALLACITE of ORANGE	-	22/6	2/6
A dressing cream. BLOSSOM			
BORANIUM	-	22/6	2/6
A hair tonic.			
CLEMINITE	-	22/6	2/6
For a face lotion.			
COLLIANDUM	-	22/6	2/6
For a face tint.			
PERGOL	-	22/6	2/6
A deodorant.			
STALLAX	-	22/6	2/6
For a shampoo.			
JETTALINE	-	31/6	3/6
For clearing the skin.			
PHEMINOL	-	36/-	4/-
A depilatory.			
MENNALINE	-	36/-	4/-
For the eyelashes.			
MERCOLIZED WAX	-	31/6	3/6
A face cream.			
STYMOL	-	36/-	4/-
For oily complexions and blackheads.			
BARSYDE	-	22/6	2/6
Dandruff eradicator.			
TAMMALITE	-	22/6	2/6
For grey or faded hair.			
LIQUID PERGOL	-	31/6	3/6
To check excessive perspiration locally.			
BICROLIUM	-	22/6	2/6
For whitening the hands.			
HARAPOSA	-	22/6	2/6
Nut oil shampoo.			

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA:

ALL WHOLESALE, and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:

LENNON & CO., Ltd. (Cape Town)
SIVE BROS. & KARNOVSKY, Ltd. (Johannesburg)

INDIA:

KEMP & CO., Ltd. (Bombay)
THE INTERNATIONAL TRADING CO., Princess Street (Bombay)
R. MACLURE (Madras)
SMITH, STANISTREET & CO. (Calcutta).
MEHTA BROS. (Calcutta)
JAMNADAS BROS. (Bombay)

NEW ZEALAND:

SHARLAND & CO., Ltd. (Auckland & Wellington)

SOUTH AMERICA:

DEARBORN, Ltd., Calla Salta 264, Buenos Aires.

PROFITABLE LINES THAT PAY.

SPUN OINTMENTS

In new series of Decorated
Tins.

Write for Quotations.

"NUXOCOL" LIQUID COCOA NUT OIL SHAMPOO

12/- doz. Sells 1/9

Showcard.

"NUXOCOL" COCOA NUT OIL SHAMPOO POWDER

24/- gross Sells at 4d.

BRILLIANTINE

New Series.

FRO-ZOF

An entirely new preparation
for Corns.

Showcard.

JABORANDI OIL

For the Hair

New Brilliantine Hair Grower

Price 11/- doz. Sells at 1/9

Packed in Show Outers of 6.

Poudre Charme de Riz

An entirely new line, most
profitable to handle.

3 sizes: 4½d. 1/- and 2/-

Cost: 36/- gr. 78/- gr. 144/- gr.

COLD CREAM

New design label.

In octagonal pots.

Beautifully packed. Fine Seller.

We pack everything necessary to a Chemist's Business.

ROBERT BLACKIE, Wholesale Manufacturing Chemist,
Shen Works, Tower Bridge Road
London, S.E. 1

**CARRIAGE PAID
ANY AMOUNT—ANYWHERE.**

**Brillantines, Hair Creams,
Bay Rhums, Vanishing
Creams, Glycerine and
Cucumber, etc. etc.**

*French Face Powders, Soaps, etc. Puffs,
Manicure Requisites, Tooth Brushes, etc.*

A NEW LINE!

Crystal Brilliantine

Beautifully packed in 3-oz. bottles, fitted
with Sprinklers, Transparent Labels.

9/6 per doz.

Produced in SIX Elegant Colours.

THE ABBEY COMPANY, Ltd.
4 Clerkenwell Green, E.C. 1.

Telephone No.:
Central 9693.

Telegrams:
"Abbefumery, Smith, London."

Orisal Regd.

The Original & Successful Remedy for PYORRHOEA
Prescribed by the Dental Profession.

PRICES.

Wholesale (including Government Duty)		Retail	
Dental Paste	... 22/- per doz. .. 6d.	2/6	per tube
Mouth Wash	... 44/- & 27/- .. 1/-	5/- & 3/-	per bottle
Special Brush	... 24/- per doz.	2/6	each
Dental Tooth Powder (Large Size)	18/-	2/-	..

Of Wholesalers, or direct from

ORISAL Ltd., 77 George St., Portman Sq., W.1.

Telephone No.: Mayfair 2899.

STRODONIA **Vanishing
Cream.**

NOW SUPPLIED IN

ALUMINIUM

SCREW-CAPPED JARS.

10½d. size—7/6 doz. 1/3 size—10/6 doz.

FROM LONDON WHOLESALE.

Direct orders value £5, subject to 1 doz. 1/3 size Bonus for
window display and 5% discount cash, one month; £2/10/0
subject to 1 doz. 1/3 size Bonus for window display, net.;
£1/10/0 subject to 1 doz. 1/3 size Bonus for window display, net.
Carriage paid on £1/10/0 upwards.

STRODE COSH & PENFOLD, Broadmead, BRISTOL.



REDUCED PRICES.

Toilet and Medicinal Preparations packed
in Collapsible Tubes.



TOILET PREPARATIONS.

	$\frac{1}{2}$ oz.	1 oz.	2 oz.
Cold Cream	2/8	4/-	5/9 doz.
Glycerine & Honey Jelly... ..	2/10	4/4	6/2 „
Oatmeal Cream	3/1	5/-	7/- „
Shaving Cream	—	9/-	— „
Toilet Lanoline	2/8	4/-	5/9 „
Solid Brilliantine	2/10	4/4	6/2 „
Vanishing Cream... ..	2/8	4/-	5/9 „

MEDICINAL PREPARATIONS.

	$\frac{1}{2}$ oz.	1 oz.	2 oz.
Blue Ointment	5/2	8/9	15/9 doz.
Boracic „	2/10	4/4	6/2 „
Calomel „	4/10	8/-	14/- „
Capsicum „	3/2	4/10	7/- „
Sulphur „	4/-	6/2	10/6 „
Zinc „	3/10	5/6	9/3 „
Borated Petroleum Jelly	3/2	4/10	7/- „
Capsicum „ „	3/4	5/-	7/8 „
Carbolized „ „	3/2	4/10	7/- „

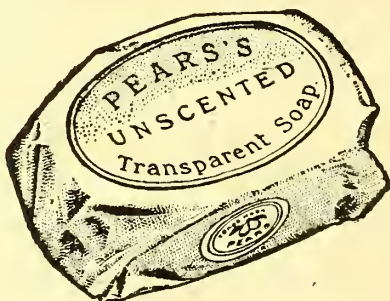
Customer's name FREE on 3 dozen of any one preparation.

BONUS.—With an order for 2 gross assorted Preparations, we will give
a bonus of 1 dozen 1-oz. tubes of any Toilet Preparation.

Telephone :
HOP 4170
(2 lines).

WILLIAM TOOGOOD LTD.
77, SOUTHWARK ST.
LONDON, S.E.1.

Telegrams :
"TOOGOOD,
BOROH,
LONDON."



*Do you stock Pears' Soap? If not
you are losing profitable business.*

Pears

A. & F. Pears, Ltd., 71-75 New Oxford St., London, W.C.1.



Mr. Geo. R. Sims' "Tatcho" and "Tatcho-tone."
A big vigorous, impressive advertising campaign, covering the whole of the British Isles, is now being pursued. A vastly increased volume of business is inevitable. Generous profit to the trade has been arranged.

TATCHO
THE HAIR GROWER
Price 2/9

Wholesale :
26/-
PER DOZEN.

TATCHO-TONE
FOR GREY HAIR
Price 4/6

Wholesale :
42/-
PER DOZEN.

GEO. R. SIMS' HAIR RESTORER CO.
5 Great Queen St., Kingsway, LONDON, W.C.2.

BE SURE AND ADD

La-Rola Rose Bloom

TO YOUR STOCK AT ONCE,

as it is being largely advertised in the
"Daily Mail," "Mirror," "Sketch," etc.

**Do not lose the business
through being out of stock.**

It is the most natural tint on the market,
and is selling well wherever introduced.

Lait La-Rola & Glycerine & Cucumber
supplied as usual,

All these articles are protected at **FACE VALUE**.
Write for Display Terms and save 10%.

M. BEETHAM & SON, Cheltenham.

Increasing Popularity of "HARLENE HAIR DRILL."

EVERY DAY EMPHASISES THE NECESSITY
FOR MEETING THE PUBLIC DEMAND.

(See Special "Carriage Paid" Offer below.)

The widespread publicity initiated by the Proprietors of "Harlene" over a number of years and vigorously maintained right up to the present time, in spite of many difficulties, continues to draw an immense response from all parts of the country. Thousands of sample parcels are dispatched daily, thus increasing the number of possible customers to retail stores everywhere.

HAVE YOU A GOOD STOCK OF "HARLENE HAIR DRILL" PREPARATIONS ?

FREE!



NOTE—The Contents of the Free HARLENE OUTFITS Comprise:

- | | |
|------------------------------|--|
| 1. A Trial Bottle of Harlene | 3. A Trial Bottle of "Uzon" Brilliantine |
| 2. A "Cremex" Shampoo Powder | 4. Book of Instructions |

FOLLOW THE TIDE OF SUCCESS.

Watch the Great Free Gift Advertising Campaign that brings the Customers to your Shop.

IMPORTANT NOTICE.—We are pleased to announce that, owing to the slight drop in cost of raw materials, we are now able to execute **orders carriage paid** on parcels of assorted goods to the value of £5 and upwards, net. Case charged 2/6 extra, allowed for in full if returned, carriage paid, within 7 days.

This Special Offer is Strictly Cash with Order.

Free Cases are entirely discontinued. In no circumstances will carriage be paid on orders less than £30, where goods are charged to a/c. Every Chemist and Stores should avail themselves of this profitable £5 Carriage Paid Parcel Offer **at once**.

EDWARDS' HARLENE, Ltd. 20, 22, 24 & 26 Lamb's Conduit Street - LONDON, W.C. 1.

*Reduced
cost of Shaving!*

**MIDGLEY'S
EMOLLIENT CREAM.
SHAVING STICK**

WILL AS FROM APRIL 1st BE SOLD AT

1/3

RETAIL

10/9

DOZEN

For the FULL SIZE STICK contained in
NICKELLED CASE & ILLUMINATED CARTON



REFILLS — same size — but packed in
illuminated carton only—*since* case

11^{D.}

RETAIL

8/-

DOZEN



BONUS REMAINS THE SAME

½-dozen Refills free with each 3 dozen order of
Standard or Assorted.



EVANS SONS LESCHER & WEBB
LIVERPOOL & LONDON. LIMITED

THE EDITOR

(Mr. W. P. WANT, F.C.S., M.P.S.)

of the *British and Colonial Pharmacist*, and

THE PRESIDENT

(Mr. ERNEST WILSON)

of the British Association of Display Men

are the Judges in the Window Display competition being held by Eucryl Ltd. Pharmacists will appreciate the impartiality and ability of these Judges.

If you have not decided the date of your display, state the approximate date on your entry card, and post to us without delay. We will dispatch the material in time for the display.

There are no conditions. No entry is dependent upon an order being placed. The display will increase your sales and your profits, whilst the valuable cash prizes offered you and your assistants are undoubtedly the best business proposition you have received.

Eucryl Tooth Powder and Tooth Paste, packed in our latest cartons and tubes, are an attraction in themselves, and carry our guarantee of purity.

Trade is good where EUCRYL is displayed.

IMPORTANT NOTICE.

We guarantee our customers against a fall in prices. Write for particulars of our guarantee, also prices and bonus terms.

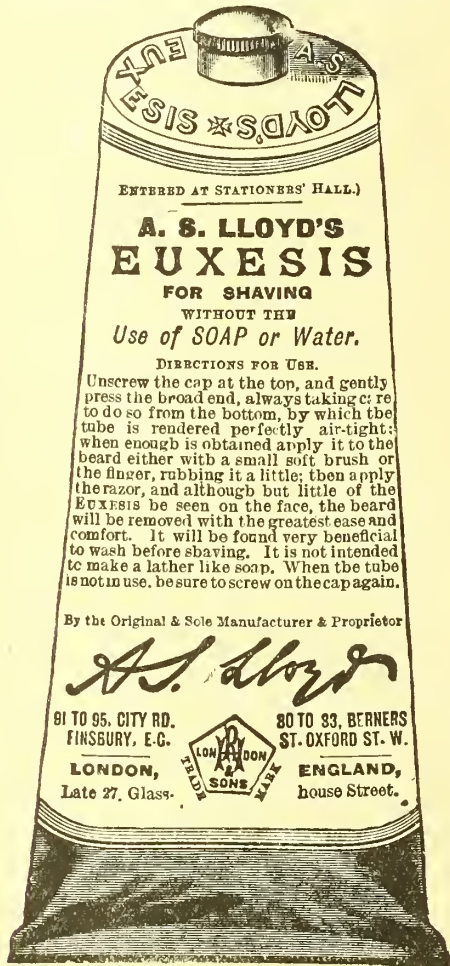
.....

EUCRYL Ltd., Shirley, Southampton.

A. S. LLOYD'S EUXESIS

(THE GENUINE).

For Shaving without Soap, Water, or Brush.



**Sold by all Perfumers and Chemists
throughout the World.**

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late **A. S. LLOYD**, with the Receipt, Trade-Mark, and Goodwill of the celebrated **Fuxesis**, the **Trade** are cautioned that the original and genuine **Fuxesis** is now manufactured at our Factory **ONLY**, and may be obtained at either of our Warehouses.

PRICES ON APPLICATION.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as Illustration.

Proprietors: R. HOVENDEN & SONS, LTD.,
LONDON: 29-33 Berners Street, W.; and 89-95 City Road, E.C.

ODO-RO-NO
TRADE MARK REG. U.S. PAT. OFF.

TRADE MARK REG. U.S. PAT. OFF.

THE ANTI-DRESS
SHIELD TOILET WATER

Effectively corrects excessive perspiration.

Sales still increasing. Write for display terms.

Distributing Agents:

**The American
Drug Supply Co.**

6 Northumberland
Avenue,
LONDON, W.C. 2.



Obtainable from all Wholesalers.

"Jackel's Cream"

(without Grease)
for THE HAIR

Sold everywhere
Established 1883.



"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a dressing and does not soil the headware. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy.

*Prices for Wholesale and Export
Houses on application.*

Jackel et Cie (of Paris)
Ltd.,

**Sauchiehall Street
GLASGOW.**

CRYSTALLISED
1/9 CREAM 2/6
Trade Mark attached to each
bottle.

A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

CAUTION.

The Labels on GENUINE EUXESIS bear two signatures—
A. S. Lloyd in Black Ink, and that of his Widow,
Aimée Lloyd, in RED. Refuse any other.

Sole Manufacturers and Proprietors: } AIMÉE LLOYD & CO.
23 PANTON STREET (formerly named Spur Street),
HAYMARKET, LONDON, S.W.

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

COMBS

DRESSING - RAKE - TOOTH

Write for Samples and Quotations for immediate delivery.

J. A. BROTHERS,

17/18 Chapel St., Whitecross St., London, E.C.2

Phone : CITY 5321.

Genuine U.S.A. Made

GILLETTE BLADES

Every Blade Guaranteed Perfect.

Final delivery of U.S.A. Army Surplus Stock, 1919

SPECIAL OFFER.

Box of 10 dozen Blades **28/6**

Two or more Boxes 28/- Carriage Paid.

H. A. CANNON,

Red Lion House, Red Lion Court, Fleet Street, E.C.4.

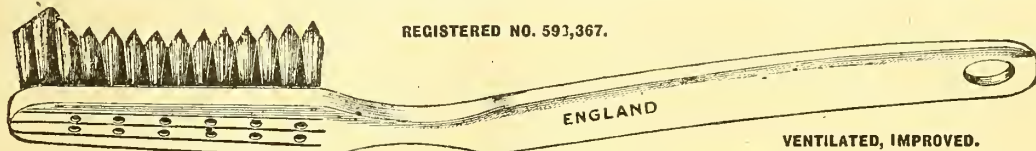
ROBERT ADDIS & SON,

— Tooth Brush Manufacturers, —
London Brush Works, London Fields, E.8.

The "ASEPTIC" or "PROPHYLACTIC."

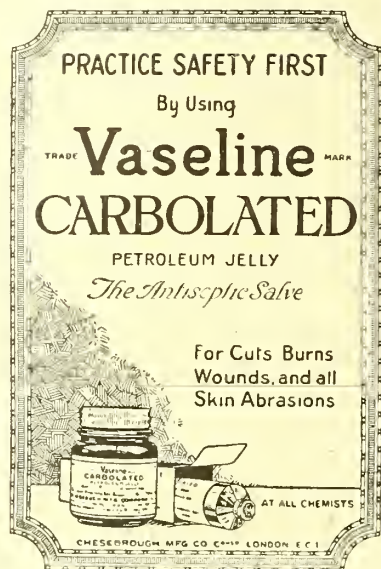
When not in use, a Tooth Brush should not be allowed to remain wet, or it becomes offensive. The advantage of this Brush is—it can be hung up to drain, allowing the air to dry and purify it.

REGISTERED NO. 593,367.



VENTILATED, IMPROVED.

To be obtained from Wholesale Houses. Packed in cartons, facilitates sales and ensures brush reaching user in clean and antiseptic condition.



TO HELP YOUR SALES OF

“VASELINE” CARBOLATED

PETROLEUM JELLY.

This advertisement will appear during March and April in forty-seven of the principal magazines and periodicals, having a combined circulation of more than 12,000,000.

This preparation is unequalled for cuts, wounds, skin abrasions, etc.

	M.W.	M.R.
No. 1 size tubes ...	11/- per doz.	1/3
No. 2 „ „ ...	18/- „ „	2/-

Also packed in 2-oz. bottles (Blue Seal Carbolated) at 8/6 per dozen.

OTHER SEASONAL “VASELINE” PREPARATIONS.

- “Vaseline” Eucalyptol for influenza, colds in the head.
- “Vaseline” Mentholated for headaches, neuralgia.
- “Vaseline” Capsicum for chest colds.
- “Vaseline” Camphor Ice for rough chapped hands and skin.

Price List will be sent on application.

**Chesebrough Manufacturing Co.,
42 Holborn Viaduct, E.C.1.**

Coming Shortly!

OUR GREAT QUINOLOX
CAMPAIGN & COMPETITION

OFFERS YOU A

**GENUINE MONEY-MAKING
OPPORTUNITY**

*Co-operate with us and have
your Share of our Success.*

Like QUIN-QUENNA came,
QUINOLOX is coming !

QUINOLOX COMPETITION SHEETS :

Send P. C. marked "Q. C. S." to—

**Quinolox Competition Dept., Leighton Laboratories,
35 GRAY'S INN ROAD, HOLBORN, LONDON, W.C.1.**

Telephone: Museum 555.

Telegrams: "Sapinolab London."

ELECTRIC HAIR BRUSH.



Recommended for promoting growth of Hair, removing Headaches, etc. Excellent results.

Price 3/9 net.

CRIMPED WIRE BRUSH ELECTRODE.



Without Handle 1/2 net.

ELECTRIC COMB.



With Handle and Terminal, 3/-.

HANDLES AND TUBES, with Flexible Cord. Can also be used as an Electrode Handle. 3/9 pair net.



ROUND PLATE.

1 in. diam. .. 11/4.

1 1/2 in. diam. .. 1/2.

2 in. diam. .. 1/4.

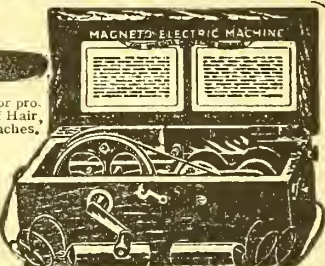
OVAL PLATE.

2 in. diam. .. 1/6.



ELECTRIC WRISTLET. 1/10 each net.

Electrodes for Medical Coils, etc. Full particulars of wide range see "N" Catalogue on request.



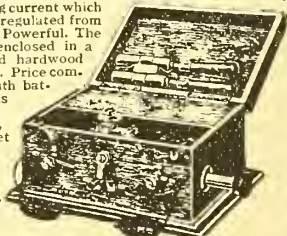
MAGNETO MACHINES. British Made.

No. D21/00A. Single Wheel Magneto in polished Pine case, regulator cord and handles complete. Approximate size 8 x 4 x 3 in. Price 18/- each net. No. D21/0A. Single Wheel Magneto, more powerful. Approximate size 8 1/2 x 5 x 4 in. Price 22/4 each net.

The "REDCROSS" Medical Coil.

British Made. Size 8 1/2 x 6 x 5 in. Fitted with high-speed make and break, ensuring a steady soothing current which can be regulated from Mild to Powerful. The whole enclosed in a polished hardwood cabinet. Price complete with batteries as illustrated, 37/6 net.

Wide range from 3/9 net.



Ward & Goldstone
PENDLETON MANCHESTER LTD.

The "SAMPSON" Massage Vibrator

British Made.

Recommended for Rheumatism, Obesity, Paralysis, Neuralgia, Nervous Diseases, and as a general tonic for stimulating the Nerves. In handsomely finished leatherette case lined with velvet, complete with richly nickelled Electrodes. £4 10s. net. Supplied to work from Electric Lighting Circuit or Dry Batteries.



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A Toilet luxury. A Bathroom necessity. Warm or Cold Air can be blown where desired. It is of the utmost value for Rheumatism, Gout, Lumbago, etc. etc. Price complete with connecting cord and adapter. £4 2s net.

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THE Proprietors of the Famous AMAMI NAIL STONES offer £5 to any charity, and a public apology, if it can be proved that any similarly packed product antedates AMAMI.

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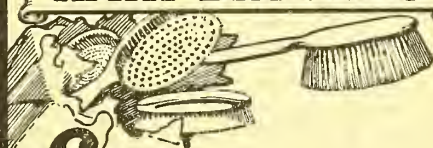
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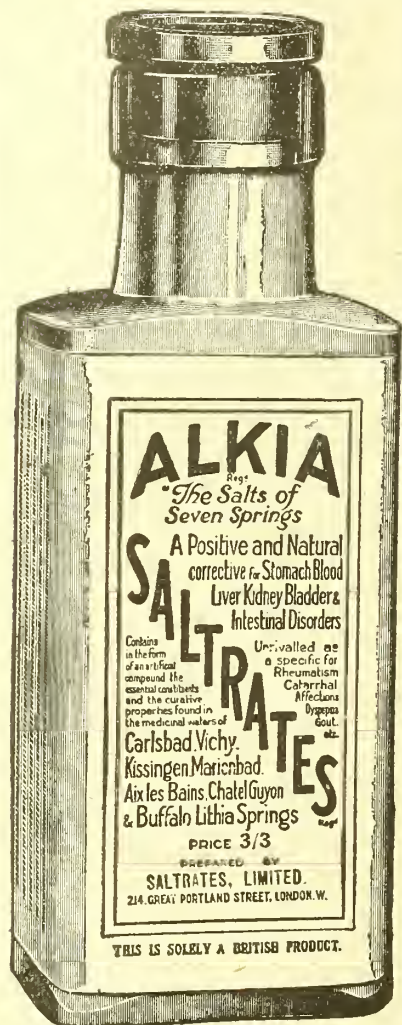


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A widely advertised and quick selling product, which represents the maximum of possible efficiency in a saline, and the best value obtainable for the money. Being highly concentrated, exceptionally small doses are sufficient, and there is no trace of any salty or other unpleasant taste.

Protected on P.A.T.A. at the full face value of 3/3 a large bottle.

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Thousands of commendatory letters on file,
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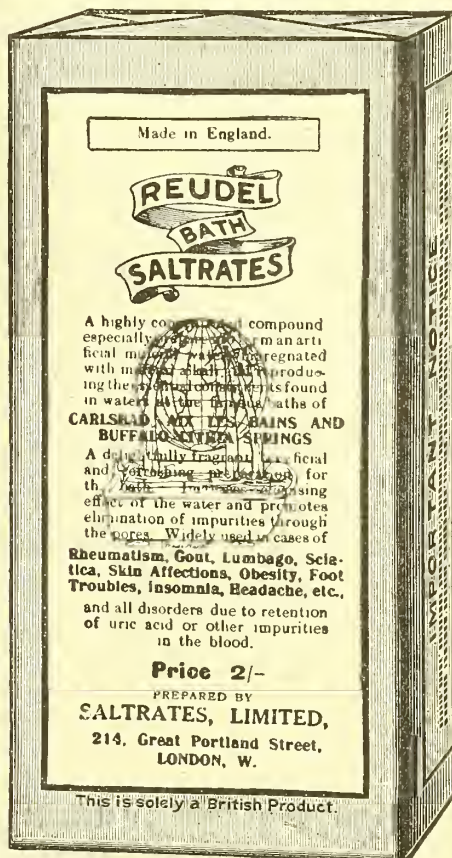
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sing our Saltrates in the highest possible terms after having experienced
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The best selling and most
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We Specialise in the
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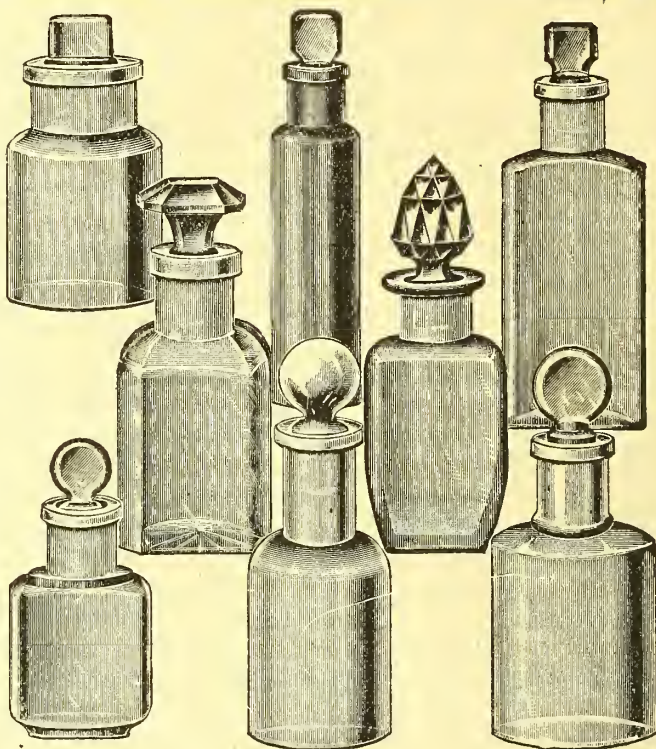
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{ Best Quality, Quinine Tinted.
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Poisons. Actinic Green, Blue or Amber.

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Sizes 34, 36, 38, 40, 42 and 44 inches over waistcoat.

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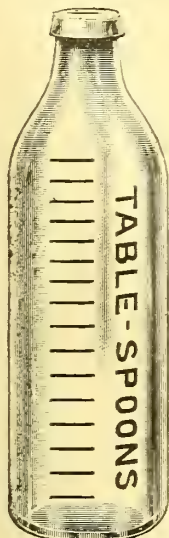
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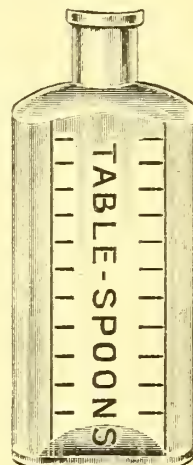
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Free from dangerous "frosted glass."

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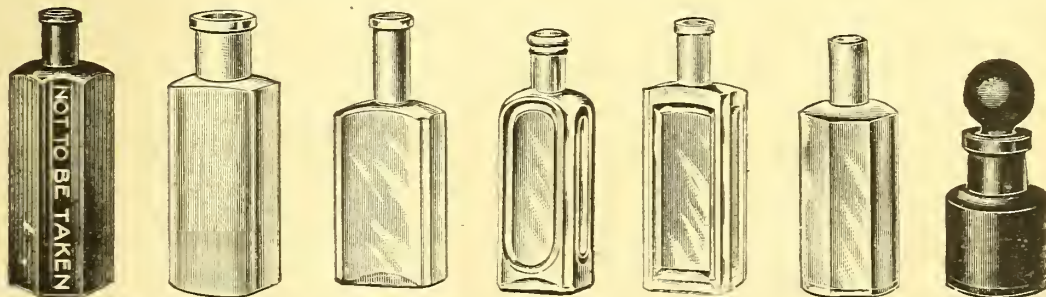
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ALL KINDS, FOR ALL PURPOSES, IN ALL COLOURS.
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Specialities: SCREW TABLETS & AMBER BOTTLES.

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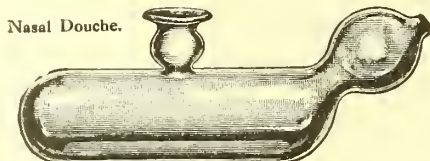
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WE HOLD STOCKS in the Provinces ready for immediate delivery, and in our North and West London depots.

At the moment we are making a special offer of the following lines from our London stock:

	Per Gross.		Per Gross.
2-oz. GREEN VIALS	at 7/6	4-oz. GREEN KALIS	at 11/-
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Nasal Douche.



Two-ended Feeder.

Tubes of all sizes, Test Tubes, Douche Linings, Burettes, Separating Funnels, and many other lines in Chemical and Laboratory Glassware.

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ESTABLISHED
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7 India Street, Crutched Friars, London, E.C. 3
supply GLASS AMPOULES, TUBES,
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OF EVERY DESCRIPTION. PROMPT DELIVERY.

DIRECT FROM THE WORKS :: WHOLESALE & EXPORT.

Good Stocks of GLASS BOTTLES

ARE NOW HELD BY

THE AMALGAMATED GLASS BOTTLE WORKS, LTD.

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DISPENSING BOTTLES

of Every Description.
REDUCED PRICES.

	2 oz.	3-4 oz.	6-8 oz.	10 oz.	12 oz.	16 oz.	20 oz.	
Blue Tinted Flats	20/-	24/6	25/6	32/-	36/-	48/-	52/-	per gross
"Special Brand" Pale-tinted Flats	30/-	34/-	39/-	54/-	57/-	68/-	80/-	"
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(Blue or Actinic Green)
White Glass Vials ... 2 drm. 12/-, ½ oz. 12/-, 1 oz. 14/-, 1½ oz. 16/-, 2 oz. 18/-, 3 oz. 26/- "

For the convenience of our friends who prefer them, we are now stocking the **W** Brand Dispensing Flats. Prices on application.

We have moulds for the various series, and stocks are held of the following:—

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TERMS—NET. MONTHLY ACCOUNT.

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GLASS BOTTLES. YORKSHIRE MAKE.

GRAD. MEDICALS
PANELS, POISONS
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In White
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PLAIN, CUT, ETCHED,
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SPECIALITY:
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Watts' Embrocation, or Curb Bottle.
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Great Remedies for the Horse

Protected Prices.
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Of all the leading Druggists' Sundries Houses.

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It saves the udder

and cures caked bag if you apply

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at the outset.
Also cures sore
teats & relieves
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8/9 16/9 25/6 per tin.

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FOR DESTROYING RATS AND MICE

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Virus for Rats and Mice, single tube, 2/- ... 15/- per doz.
3 tubes, 5/-
Virus for Mice only - single tube, 1/6 ... 9/- " "
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Date-expired tubes returned to us postage paid will be exchanged
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Danysz Virus in Liquid Form

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Quart Bottles 6/- each ... 4/6 each
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Discount off Retail Prices 25% Monthly Account, or 33 1/3% cash
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For destroying Blackbeetles, Cockroaches, Crickets, &c.
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In tins 3d. ... 2/1
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Disinfecting Fluid,
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OF HIGHEST QUALITY,
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1 lb. 2 lb. 4 lb.
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Customer's own name, Showcards & Posters.

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WRITE TO-DAY for quotations for

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"Rodine" Routs Rats completely.
Swarms quickly succumb to its
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Rapid Rat Remover. It pays.

Get your "Rodine" direct from the Sole Maker:

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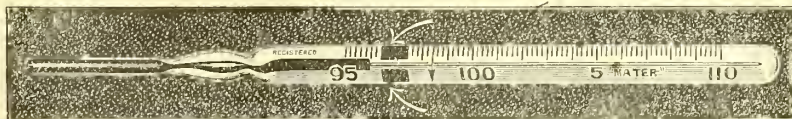


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Made in Three Rapidities: Ordinary, 1 Minute & $\frac{1}{2}$ Minute.

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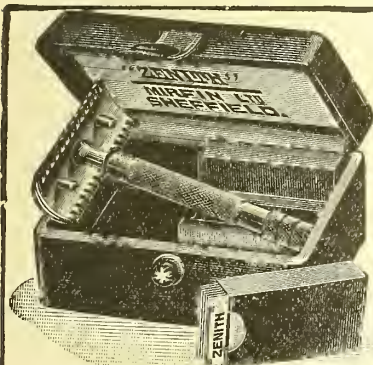
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SAFETY
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Made in seven
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Perfect curved top
Silver Plated.
High-class Finish.

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BRINGING
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EGGS

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Whatever speciality you are advertising, we are almost sure to have just the right Block to illustrate your advert.

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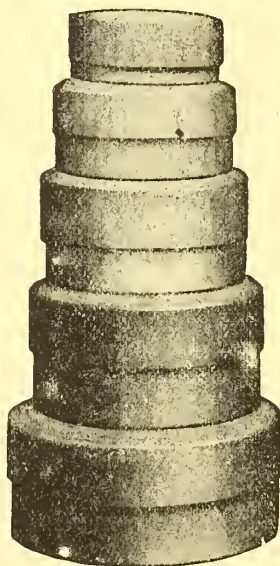
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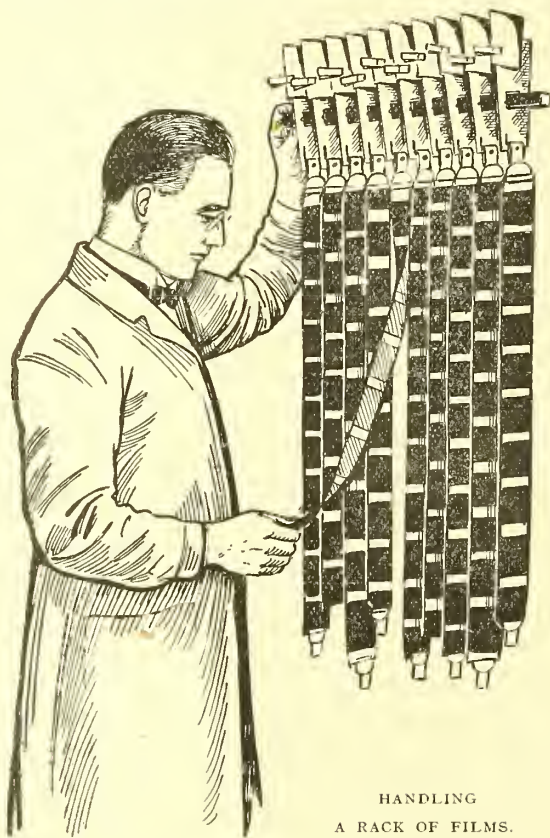
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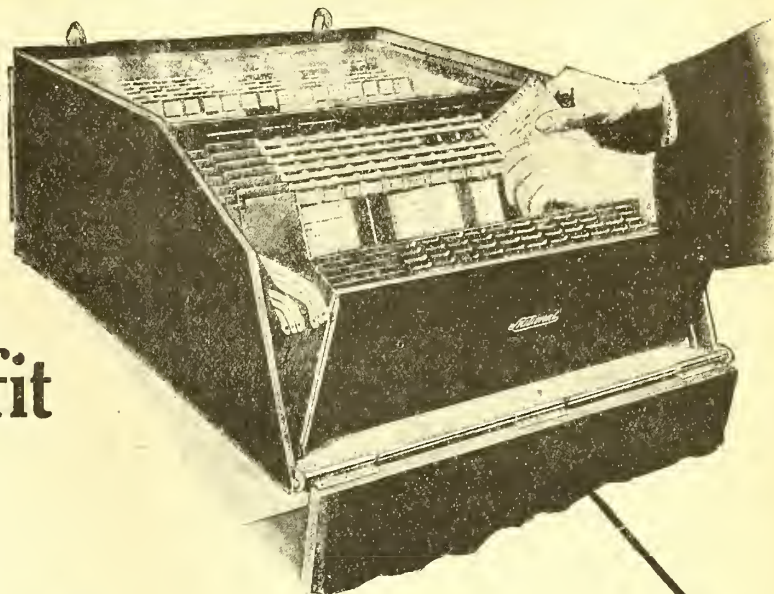
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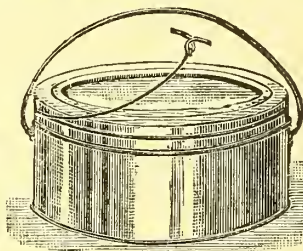
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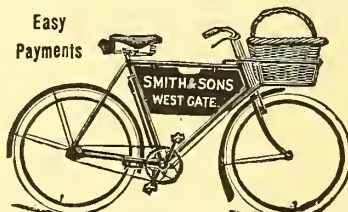
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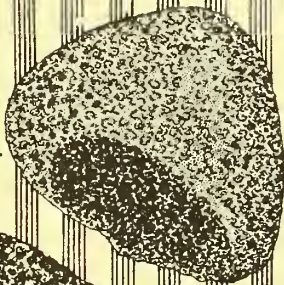


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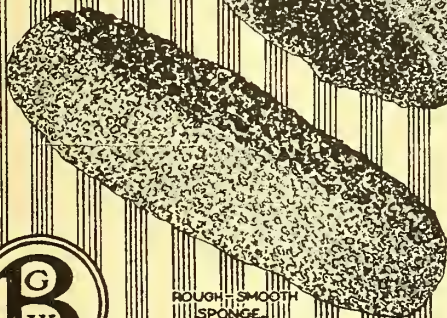
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Made from the best red rubber, of a fine soft texture, which resists wear much better than the coarser varieties. The ordinary sponge is made in five sizes; the patent Rough-Smooth in three sizes; and the Turkey Cup in one size only.

Unaffected by boiling water, or strong disinfectants, they are the perfect sponge.

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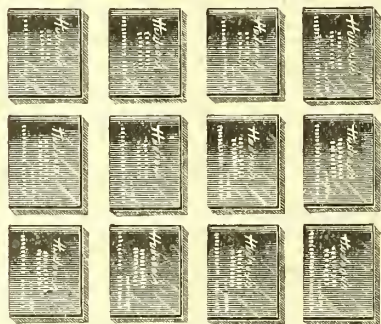
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“ZINYL”

“ZINYL” is a Disinfectant, non-caustic, perfectly soluble in water, forming a milky opalescent mixture which remains without separation. Carbolic Acid, on the contrary, sinks to the bottom and thus exerts but a limited effect.

“ZINYL” contains 16/17% of Tar Acids; much of the “cheap” rubbish sold does not contain 3%.

“ZINYL” is claimed to be one of the best and cheapest Disinfectants and Germicides on the market, and yields a good profit to the seller. It has been appreciated by the trade for nearly 40 years.

4/6 Gallon; 100 Galls. 4/2; 500 Galls. 4/- net.

In 40-gallon Casks, and in 5 or 10-gallon Drums.

Also attractively put up in Pint Bottles, 15/- per dozen net.

“ZINYL” Surgical Fluid.

This special miscible fluid is one of the most powerful Germicides on the Market. It has a guaranteed co-efficiency of 18/20 on B. Typhosus. This test represents the power to sterilise a culture of a specified bacterium, taking pure Phenol as the standard; so that the special “Zinyl” is about 20 times the strength of Pure Carbolic Acid. If 1 part of Carbolic Acid in 100 parts of water were required to destroy a culture of Bacillus Typhosus, 1 part of special “Zinyl” (“Eklips” Brand) in 2,000 parts of water would exert the same power.

Price in Pint Bottles, 36/- dozen; or 10/- per Gallon net.

1-gallon Tins and 5-gallon and 10-gallon Drums and Casks.

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The most eminent Physicians and Surgeons
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NO Chemist can afford to be without them.

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The Chemist who doesn't maintain his
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179 Queen Victoria Street, LONDON, E.C. 4.

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Dainty, fragrant and refreshing; never fails to please.

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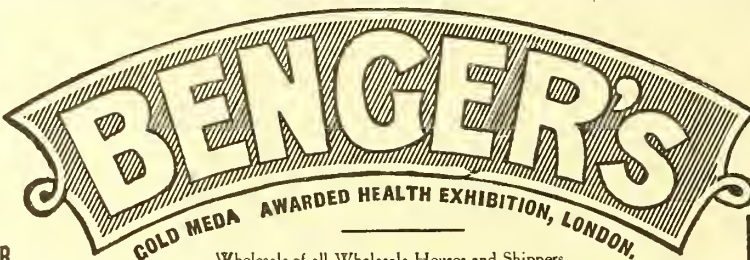
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The *Lancet* describes it as

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Branch Offices at: 117 Pitt St., Sydney, Australia; 90 Beckman St., New York, U.S.A.
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"Benger's Food has by its excellence established a reputation of its own."

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Special to the Chemist & Druggist

"ZEPTO"

Pencils. Have you tried the tumbler idea for selling these? If not, put it to work on your counter at once. Get a glass half full of water, put across top one "Zepto" Pencil, at foot of same a visiting card with "Al you need to whiten teeth," written on back. It has never yet failed to win trade. Worked in conjunction with the "We Three" window display, it keeps the counter busy all day. P.A. F.A. 9d., 5/3 per doz., and gives cent. per cent. profit on window terms.

"P. P. T."

or Pyshan-Points Tea builds and retains people into the shop. Without considering the profit, it pays in hard cash a better return than any advertising idea yet. (That is from a chemist's point of view.) Drop us a postcard and we will tell you all about it. The "Tea" card show is one of the "helpers."

THOS. CHRISTY & CO., 4 Old Swan Lane, E.C. 4, recommend the

FACE POWDER

If you are out for bargains try out 2 dozen each No. 3719, 8/6, and No. 3720, 4/9 per doz. These are first-class "Coudray" Powders, and are popular at 1/3 and 10d. each. You will see that your profit is O.K.

"CIRENGOL"

Mr. Greenfly & Co. care nothing for trade conditions; they are coming as usual, thus "Cirengol" sales are sure, likewise the profit.

Each tube in an illustrated "ship-over." Sells at 9d., costs 6s. per dozen. Presented to the Public half-dozen on a display card, while the unique magnified "greenfly" window bill secures initial interest. Why not cater for the gardeners in your district?

items mentioned above as being just the things that pay and sell well now.





A Weekly Journal of Pharmacy and of the
Chemical and Drug Trades

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

Subscription Rates. TWENTY SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy 6d. post free; *Diary*, 2s. post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martin's Ltd."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 20s., franco.
Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 20ch., franco.

Terms for Advertising may be obtained on application to the Publisher HEAD OFFICE: 42 CANNON STREET, LONDON, E.C. 4. Telegrams: "Chemicus, Cannon, London." Telephone: Central 3617 (three lines). BRANCH OFFICES: MELBOURNE AND SYDNEY, AUSTRALIA.

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"C. & D." Provincial Office.

In order to meet the convenience of a constantly increasing circle of advertisers and subscribers in Lancashire and Cheshire, a branch office of THE CHEMIST AND DRUGGIST has been established at

49 County Buildings,

Old Millgate,
Manchester.

This new office is in charge of Mr. John R. Goldthorpe, a pharmacist. The telephone number is "City 52."

STATE-OWNED ARSENIC IN QUEENSLAND.—Among the trading enterprises of the Queensland Government is an arsenic mine, from which about 3,000 tons of ore have so far been obtained, at a gross expenditure of some 17,000*l.* The ore is passed on to arsenic-treatment works, also owned by the State, whose aim is to afford relief from the very high prices ruling for arsenical products. During the last financial year the gross expenditure on the works was 14,040*l.*, bringing up the total since the commencement to 23,311*l.* The arsenic produced is distributed among the farmers of the State at 10*l.* a ton for the destruction of prickly pear, and at 25*l.* a ton for cattle dips and other farm requirements.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

British Pharmaceutical Conference.

At a meeting of a sub-committee of the Local Committee, held at Scarborough on March 17, it was decided to have the following competitions at the Conference: Golf Competition, open to both sexes; swimming match, open to all, to decide the championship of the Conference, to be held in the swimming-pool at 7.30 A.M.; cricket matches; lawn tennis, and bowls.

The annual statement of accounts and balance sheet for the year ended December 31, 1920, has been issued this week. The Liverpool Local Committee contributed 56*l.* 16*s.* 3*d.* to the funds of the Conference, but the debit on the year is 82*l.* 11*s.* 1*d.*, making a total deficiency of 239*l.* 15*s.* 8*d.* On this account it is asked that those members who are able will send donations in addition to the annual subscription of 10*s.* 6*d.* The date of the Scarborough Conference is June 13 to 17, inclusive.

Contracts.

The following tenders have been accepted by the bodies named:

Beverley Guardians.—Mr. J. Stanser, chemist and druggist, drugs.

Colchester Guardians.—Mr. A. Weddell, Ph.C., drugs, etc.

Hemel Hempstead Guardians.—Mr. J. Roberts, chemist and druggist, drugs, etc.

Narbeth Rural District Council.—Mr. W. Morgan, Ph.C., disinfectants.

Northampton Guardians.—Mr. McKinnell, chemist and druggist, drugs.

The following Government contracts, among others, have been notified:

ADMIRALTY.—*Lime Juice*.—Evans Sons Lescher & Webb, Ltd. *Thermometers*.—T. E. Thompson & Co. *Vinegar*.—Fardon's Vinegar Co., Ltd.

AIR MINISTRY.—*Caustic Soda*.—The Castner-Kellner Alkali Co., Ltd.; East Lancashire Chemical Co.

CROWN AGENTS FOR THE COLONIES.—*Lint*.—Vernon & Co., Ltd. *Novorsenobillon*.—May & Baker, Ltd.

HIGH COMMISSIONER FOR INDIA.—*Bottles*.—Lewis & Towers. *Chloroform*.—Duncan, Flockhart & Co. *Copper Sulphate*.—G. Boor & Co. *Cresol*.—Jeyes' Sanitary Compounds Co., Ltd. *Salomac*.—Brunner, Mond & Co., Ltd. *Stills*.—Blair, Campbell & McLean, Ltd.

H.M. STATIONERY OFFICE.—*Cash Register*.—National Cash Register Co., Ltd.

WAR OFFICE.—*Chloride of Lime*.—The Castner-Kellner Alkali Co., Ltd. *Electric Cells*.—Siemens Bros. & Co., Ltd. *Oxygen*.—British Oxygen Co., Ltd.

Trade with Russia.

The Anglo-Russian Trade Agreement was signed on March 23 by Sir Robert Horne, President of the Board of Trade, on behalf of the British Government, and M. Krassin, on behalf of the Soviet Government. The Premier in the House of Commons announced the signature of the agreement, and added that all special restrictions on exportation and trade between Russia and this country, so far as the British Government was responsible for them, were being removed. The renewal of direct commercial relations is still uncertain, however. M. Krassin points out in the Press that while there is any danger of Russian gold or goods being seized on arrival in this country trade cannot be opened up. The question of ownership must first be settled, and arrangements are being made to bring a test case before the courts as speedily as possible. If the verdict is for the Soviet, trade can be opened up immediately, declares M. Krassin, but "if judgment is given against the Soviet the trade agreement will be useless unless the British Government steps in and obtains a revision of the decision." The new agreement is described as a preliminary agreement pending the

conclusion of a formal peace treaty between the Governments concerned. It provides that, subject to the cessation of propaganda activities of the Soviet Government outside Russia, obstacles to resumption of trade, including Russian trade with foreign countries, are to be removed. Nominated persons from each country may, unless they are regarded as undesirable, enter the territories of the other and carry on trade there. They will receive full protection and facilities, as also will official trade agents. Telegraph and mail arrangements are to be resumed. The British Government will not seize anything exported from Russia in payment for imports, and will not obtain special legislation against the importation of precious metals from Russia. If the British courts hold that imported gold or commodities are validly attached on account of obligations incurred by the Soviet Government or by any previous Russian Government before March 16, 1921, the Soviet Government may terminate the agreement forthwith. All claims of either party or its nationals against the other in respect of property or rights or obligations incurred by the existing or former Governments shall be equitably dealt with in the General Peace Treaty. Meanwhile the Soviet Government recognise the principle that they are liable to pay compensation to private persons who have supplied goods or services to Russia for which they have not been paid.

Birmingham.

The local students of pharmacy are holding their sessional terminal "smoker" at the White Horse Hotel, Congreve Street, on March 29.

Owing to sudden illness, Mr. G. S. Albright and his colleague, Mr. R. Green, were unable to take their seats on the Oldbury Bench on March 16.

It is estimated that the annual fall of soot in Central Birmingham is nearly 578 tons to the square mile of surface, while in Malvern it is only fifty-nine tons. In an experiment once made in the neighbourhood a million cubic feet of air was found to contain 11 lb. of solid matter—chiefly soot. Mr. J. F. Liverseege, F.I.C., Ph.C., the city analyst, is responsible for Birmingham's air tests, and has made a series of important records from his various analyses.

The following extract is taken from a recent letter in the correspondence columns of a Birmingham paper: "Can anyone explain why our chemists are so fond of pushing everything American? Recently I went into a chemist's shop and asked for a stick of shaving-soap made by a well-known English firm. I was informed that this particular brand was not stocked, and was shown several sticks of American brands, all more expensive. The following day I went to another chemist for some ointment for a particular complaint, and the chemist recommended some American brand. I asked if he did not stock any other kind, and he showed me two other makes, both Yankee. How is it that British goods are not pushed?"

Leicester.

A special feature is being made of photographic apparatus in most of the local pharmacies this Easter. A quick turnover of stock will be aimed at this season.

A meeting of photographic chemists and dealers in Leicester and Leicestershire was held on March 21 to consider the standardisation of charges for developing and printing. Mr. W. J. Lewis (President of the Leicester and Leicestershire Pharmaceutical Association) occupied the chair. A special committee was elected to look after the interests of the dealers, Mr. F. Young being elected provisional chairman. A suggested list of prices for developing, printing, enlarging, etc., was given to the secretary to hand over to the local pricing committee for its consideration. Complaints were recorded of the premature reductions in the prices of plates and cameras, and also against the photographic manufacturers for giving public information of the falling prices before the date on which these prices come into operation. The following resolution was sent to the Photographic Dealers' Association and Plate Makers' Association:

That this meeting of the Leicester and Leicestershire photographic chemists and dealers is of the opinion that the discount of glass plates is insufficient, having in view the now falling turnover, and the fact that other photographic articles not so liable to breakage and deterioration, and also costing less in handling, bear better profits. It is further of opinion that any further revision of prices of plates should be accompanied by an increase of discount to the dealer.

Liverpool.

Even the suburban retailer hopes for a slice of holiday on Good Friday and Easter Monday.

Mr. Samuel Hardy, St. John's Lane Pharmacy, is arranging, on medical advice, to take a term of rest after a long period of strain.

The address to the Liverpool Chemists' Association by Professor Lewis (*C. & D.*, March 19, p. 70) was a fine elementary education in a fascinating and vital subject, and aroused enthusiasm.

Liverpool and district pharmacists have been invited to contribute papers for the practice section at the coming British Pharmaceutical Conference, and Mr. J. L. Hirst has consented to accept and transmit any offers.

Certain tablets which cannot be supplied except upon presentation of a prescription were more than once asked for during the Grand National week; a refusal met with the assertion, "Well, I can buy these almost anywhere." The bluff failed in its object.

"I am a brother and you must help me," cried an excited man who rushed into a down-town pharmacy the other day. The pharmacist was in process of denying that he belonged to any brotherhood save the human one, when the conversation was cut short by the arrival of a police constable, who had been in chase of the intruder.

The funeral of Fire-sergeant Robert Kevin in the Isle of Man was preceded, on March 19, by a memorable scene as the *cortège* passed through the city to the landing stage, headed by the City Police Band. Wreaths and the presence of representatives of Ayrton, Saunders & Co., Ltd., testified that his gallantry at the Hanover Street fire (*C. & D.*, March 19, p. 48) was recognised.

By the courtesy of Evans Sons Lescher & Webb, Ltd., the capacious half-block, 58 Hanover Street, adjacent to their own head offices, has been rented to Ayrton, Saunders & Co., Ltd., for central quarters, pending the reconstruction of the gutted building. Formerly the city residence of the Earle family, No. 58 has been a drug-house for over a century. Other offers of temporary accommodation have been extended, and have been received with gratification. The demolition of the ruined offices and packing-rooms is being watched day by day by large crowds, the section of the street on to which the debris falls being barricaded. Ayrton, Saunders & Co., Ltd., write:

It is often said there is no sentiment in business; the fallacy of this statement has been totally disproved, as far as we are concerned, by our experience of the last few days, during which time we have received so many hundreds of kind, sympathetic, and cheery letters, telegrams, and offers of assistance from all parts of the kingdom—so much so, that we have been profoundly impressed, more so than we have words to express. We are not able at the moment to answer these communications individually, and shall be glad if our friends will accept our warmest thanks through the channel of your paper. So many inquiries have been made with respect to the extent of the fire, and the present conditions under which we are carrying on business, that we shall be much obliged if you will enable us to inform our friends of the situation.

[Further details appear in Messrs. Ayrton, Saunders & Co.'s advertisement in this issue.]

Miscellaneous.

FIRE.—An outbreak of fire occurred at the premises of Boots, Ltd., Market Place, Chesterfield, on March 15, and resulted in damage to a store-room and basement.

POISON-LICENCE APPLICATION.—Mr. R. Seath, Faversham, has applied to the town council for a licence to sell agricultural and horticultural poisons.

EXPORTS TO RUSSIA.—The Board of Trade (Licensing Section) announces that licences are no longer required for the export to Russia of any goods other than goods the export of which is prohibited except under licence to all foreign countries.

COST OF LIVING.—It is announced in "The Labour Gazette" that, on March 1, the average level of retail prices of all the commodities taken into account in Ministry of Labour statistics was 141 per cent. above that of July 1914, as compared with 151 per cent. a month previously and 176 per cent. on November 1, 1920.

POISONINGS.—The following cases of fatal poisoning have been recorded since our last report: At Bradford, Caroline Hardacre committed suicide by taking potassium permanganate while of unsound mind.—A verdict of "Accidental death" was returned at an inquest held in South-East London, on March 21, on the body of a police-constable named Trapmore, whose death was certified as due to oxalic-acid poisoning.

SCHEDULED POISONS IN PROPRIETARY MEDICINES.—At a recent meeting of the Bristol Grocers' Association, the President mentioned that a member of the Association had been fined 5*l.* for selling Eade's Pills. The Pharmaceutical Council were empowered to make an order "for themselves," and could recover any fine imposed. He advised his colleagues to leave patent medicines alone. The speaker added that a letter would be sent asking for information or a list of things not to be handled by a grocer.

WINE-LICENCE APPLICATION.—Mr. C. H. Leedham, chemist and druggist, formerly of Burnley, applied at Nelson Police Court, recently, for the transfer to him of the wine off-licence granted to Mr. A. E. Walker, chemist and druggist, at the Licensing Sessions on February 7 (*C. & D.*, February 12, p. 52). It was stated for the applicant that he had bought the stock of the business, including wines other than medicated, at a valuation. Mr. Walker said that when the licence was granted he was not asked to give an undertaking to sell only medicated wines. After some discussion the transfer was granted; the presiding magistrate, however, suggested that the police should "take note" during the ensuing year, and it was understood that Mr. Leedham would sell medicated wines only.

IN THE COURTS.—In the Mayor's and City of London Court, on March 18, the District Chemical Co., Ltd., 1 Fenchurch Avenue, E.C., obtained judgment for payment of the sum of 15*l.* 6*s.* due from Mr. F. W. Fitzgerald, manufacturing chemist, Union Street, Stratford, E., payment to be at the rate of 1*l.* a month.—At Old Street Police Court, London, on March 21, Helm Chocolate, Ltd., Wallington, were summoned for selling spirits to be retailed without taking out a licence under the Finance Act, 1910. It was stated for the prosecution that liquid enclosed in a casing of chocolate and sold by the company contained 9.7 per cent. of spirit. Mr. Travers Humphreys, defending, said he was going to call an analyst who would certify that the proportion of spirit was 7 per cent. His clients were not retailers, but manufacturers and wholesale dealers, and if they took out a licence it would have to be one for manufacturers. It was not a question whether they were going to take out a licence, but there was no licence that they could take out. The hearing was adjourned.

INQUESTS.—The City of London coroner held an inquest, on March 19, on the body of Mr. John Frank Saunders, chemist and druggist, who had thrown himself in front of a train at Farringdon Street Station on March 16. The evidence showed that the deceased, who had lately been residing at a temperance hotel in Clerkenwell Road, was formerly employed as a chemist's manager at Swansea. He had patented a medicine, in respect of which he was waiting to form a company. He had been in the habit of taking drugs, including cocaine, notwithstanding the efforts of his wife and his brother to persuade him to give it up. A verdict was returned to the effect that the deceased committed suicide while of unsound mind.—The St. Pancras coroner opened an inquiry on March 21 into the death of Dr. Lawrence Drew Shaw, D.S.O., who died on March 17, a bottle labelled "Poison" and a hypodermic syringe being subsequently found in his pockets. Dr. B. H. Spilsbury stated that he was unable to account for the death of the deceased, and the inquiry was adjourned for the customary analysis to be made.

Irish News.

Brevities.

Mr. W. Kennedy, Ph.C., Borris, co. Carlow, who was shot dead on March 15, outside his medical hall (*C. & D.*, March 19, p. 49), was proceeding towards the local hotel with his solicitor when a volley of shots was fired over a wall on the opposite side of the street. Mr. Kennedy collapsed mortally wounded, and Mr. O'Dempsey, solicitor, was very seriously wounded.

The Local Government Board for Ireland has issued a circular to the various Boards of Guardians, enclosing the usual detailed list of medicines and medical and surgical appliances, and pointing out that the prescribed prices had been carefully revised, following in this respect the current market quotations. The prices of a large number of the items were very high, and the Board urged Guardians and their medical officers to exercise the strictest care and supervision over the medical expenses for the coming year. Recoupment could not be allowed in any case where the Guardians accepted a tender other than the lowest unless there were good and sufficient grounds for adopting that course.

Belfast.

At the police-court, on March 21, James W. Allen, a druggists' assistant in the city, was charged in connection with a hold-up at Queen's Square, Belfast, on March 8, of the offices of Cowan & Co., carting agents, when the sum of 35*l.* 12*s.* 6*d.* was taken away by armed men. Prisoner was remanded until March 26.

At a meeting of the Executive Committee of the Belfast chamber of trade, on March 16, a communication from the Ulster Retail Drug Trade Association was read, thanking the chamber for the interest taken in the Draft Regulations of the Dangerous Drugs Act. Mr. F. J. Blakemore, Wolverhampton, President of the National Chamber of Trade, informed the meeting that it was due to the representations from Belfast and elsewhere that satisfactory progress had been made. At the annual dinner of the chamber, on March 15, Mr. J. J. C. Culbert, member of the Council of the Pharmaceutical Society of Ireland, responded to the toast of "The Chamber of Trade."

At co. Antrim Assizes, Belfast, on March 16, before Mr. Justice Dodd and a jury, Francis Hanratty, farmer, Letnakelly, co. Monaghan, sought to recover 180*l.* damages from George Cheevers, R.D., Keady, co. Armagh, for damages through the alleged negligence of Mr. Cheevers in the driving of a motor-car whereby it collided with a horse and cart driven by the plaintiff; while Mr. Cheevers sought to recover 160*l.* 13*s.* 9*d.* for damage to his motor-car caused by the alleged negligence of Mr. Hanratty in the management of his horse and cart. The jury found that the accident was caused by combined negligence, both parties being equally to blame. His lordship said he would enter judgment for Hanratty in Cheevers's action, and for Cheevers in Hanratty's action. He would stay execution until the second day of next sitting in order to allow either side to move to set aside the verdict.

Dublin.

Fannin & Co., Ltd., Dublin, have been appointed contractors for medical and surgical appliances by the Cavan Board of Guardians. Boileau & Boyd, Ltd., Dublin, were awarded the contract for medicines.

The Rathdrum and Waterford Guardians have appointed Mr. B. G. Fagan as analyst, temporarily, owing to the death of Sir Charles Cameron. Dr. William D. O'Kelly has been appointed analyst to the Baltinglass Board of Guardians.

The Commissioner of Police in London has issued a notice warning ex-Service men and other members of the public who are seeking for business openings to exercise care in responding to advertisements offering businesses for sale, partnerships, etc., where cash deposits are asked for.

Scottish News.

Brevities.

Mr. J. L. Gammie, chemist and druggist, has been appointed a member of the management committee of Macduff Merchants' Association.

The portrait of Mr. A. Turner, Ph.C., Dumfries, who was at one time Provost of Maxwelltown, is to be hung in the council chamber of that town.

Dundee.

A shilling "lucky dip" at Mr. G. J. Lindsay's pharmacy, Nethergate, on March 18, proved a great attraction.

The National Scottish Photographic Salon has been held in Dundee during the past three weeks. Mr. W. C. Ramsay, chemist and druggist, Dundee, and Mr. D. Storrar, chemist and druggist, Kirkcaldy, were among the exhibitors.

Edinburgh.

Dr. Norman Walker, Edinburgh, has been appointed chairman of the Scottish Board of Health Consultative Council on Medical and Allied Services, in succession to Principal Sir Donald MacAlister, K.C.B.

Referring to the late Mr. Duncan Napier, whose death was announced in last week's issue (p. 61), a correspondent writes: "My mother used to tell of a coalman to whom, one bitter wintry day, she offered a 'nice hot drink,' the latter consisting of a steaming cupful of Napier's composition. Though the good lady had never heard of Pussyfoot, she was able thoroughly to gauge the recipient's disappointment after the first hearty mouthful."

Some notes written by the late Mr. A. I. McCallum, J.P., M.R.C.V.S., chemist and druggist (*C. & D.*, March 19, p. 50), a few years ago, throw some interesting side-lights on his career. His apprenticeship to Dr. Girvans, Maybole, commenced in 1861. He was then fourteen years of age. On the completion of his apprenticeship he went into the retail department of the Apothecaries' Hall, but as the result of a poisoning case at Dr. Girvan's shop, was sent back there by the manager of the Hall to take charge until the case was cleared up. It was at this period Mr. McCallum decided to become a veterinary surgeon. He went to Edinburgh, where he studied under Professor Dick, and at the end of the session was promised a situation as assistant until the commencement of the next session. The remuneration was to be at the rate of 70*l.* per annum. Hearing, however, that Mr. T. G. Stoddart, chemist and druggist, Grassmarket, required an assistant, he applied for the situation, and started work there in 1866. "The drawings were 3*l.* to 5*l.* a week," says Mr. McCallum. Two years later he bought the business. Things prospered until 1874, when the City of Glasgow Bank stopped payment and he lost 3,100*l.* In 1878-9 he went for a voyage round the world. During 1899 he disposed of the shop in Grassmarket, and afterwards confined himself to veterinary work, developing an extensive practice. He thus acquired considerable means, of which he devoted 25,000*l.* to the Royal (Dick) Veterinary College, and the palatial buildings at Summerhall Square stand as a permanent memorial to him. In 1907 and 1908 he paid a visit to Australasia.

Oban.

In a recent number of the "Oban Times" a tribute was paid to the public work of Mr. D. M. Skinner, chemist and druggist.

Mr. S. Lawrence, chemist and druggist, George Street, has taken into partnership Mr. J. L. Shepherd, chemist and druggist, who has been manager of the drug business of Alex. Robertson & Sons, Ltd., for the last two years. The business will be carried on under the style of Lawrence and Shepherd. Messrs. Robertson have amalgamated their sheep-dip business with McDougall Bros., Ltd., Manchester.

Australasian News.

DEGREES IN PHARMACY.—The effect of the new regulations which have recently been sanctioned by the Sydney University Senate is of importance to pharmacists desirous of taking the B.Sc. or D.Sc. degree. These regulations allow materia medica to be presented as a second-year subject, and a new course, advanced pharmaceutical science and analysis of food and drugs, has been introduced into the final (third) year curriculum. A candidate who does the ordinary pharmacy course and then decides to take the degree course gains several advantages. He is not, for instance, required to take chemistry, botany, and materia medica, as was formerly the case. For honours an extra year in one subject must be done, and for the doctorate it is necessary to present a thesis embodying the results of an investigation in a particular science. Pharmaceutical science is on the list of optional subjects for both honours and doctorate.

PROFITEERING CASES IN NEW ZEALAND.—Two charges of alleged profiteering, in respect of dispensing charges, were recently investigated by the Wholesale and Retail Traders' Committee. In the first case, reported by the Dunedin Tribunal, the question of pharmacists marking in cipher the price charged for a prescription was raised. The Tribunal suggested that this eliminated competition, as in Dunedin nearly every chemist charged, or offered to charge, the same price as the first dispenser. After a discussion it was decided that the use of a code word was not connected with profiteering nor was it detrimental to the public. For the defence it was proved that 4*s.* 6*d.*, instead of 5*s.* 6*d.*, had been originally charged for the mixture in question, thus the cipher acted in favour of the public. In the second case, for dispensing a prescription containing two drachms of glycerin and tannin 2*s.* 6*d.* had been quoted. An inspector, on receiving the complaint, had visited various pharmacies asking what would be charged for that amount of glycerin and tannin, with the natural result that the ordinary retail price of 6*d.* was quoted. In explanation of the dispensing-fee, which should have been 1*s.* 6*d.*, it was urged that the one is a sale without responsibility, the other is professional service.

ANOTHER PHARMACY TEST CASE.—A decision in favour of the plaintiff was recently delivered in an action in which the proceedings were instituted at the instance of the Pharmaceutical Society of South Australia to test the right of friendly societies to dispense and sell medicines, drugs, and certain other commodities to persons other than members of the Society or its branches. For the plaintiff it was stated that the defendant Society, under the heading of "objects" in its rules and regulations, provided for, among other things, the dispensing, selling, and supplying medicine, etc., to the members of the Society and any other person. This rule, plaintiff claimed, was *ultra vires* in so far that it extended the benefits to any person other than those specified in Section 4 of the Friendly Societies Act, and he sought an injunction restricting the Society from so doing. It was also alleged that defendant was carrying on an open chemist's shop. The defence contended that the facts alleged did not affect or concern any public interest, although the selling of medicine to the public was admitted. The Chief Justice, in giving his judgment, declared that there was no intention on the part of the Legislature to enable friendly societies to dispense or sell medicines, etc., to any other person except the members and specified relatives. As regards the complaint of carrying on an open chemist's shop, the Society, in trading in other articles than medicines, medical requisites, etc., was acting *ultra vires*. He considered the public was not sufficiently protected by the employment of a registered pharmaceutical chemist as manager of the business, for he might be away at times. An injunction was granted to restrain defendants from exceeding their legal powers.

TRADE BOARDS OFFICE.—As from March 29, the Office of Trade Boards will be removed to 7-11 Old Bailey, London, E.C. 4.

French News.

(From the "C. & D." Paris Correspondent.)

THE WHOLESALE DRUGGISTS' ASSOCIATION "bureau" for 1921 is composed of M. Alphonse Michel, President; M. Charles Buchet, treasurer, with M. Perrotin as assistant-treasurer; six Vice-Presidents, MM. Dagommer, Fromont, Gallois, Charles, Thiriet, and Zundel; and six secretaries, MM. Bachelet, Boulanger, Dechaud, Mathurin, Merveau, and Pelliot.

ALSACE PHARMACIES FOR SALE.—An advertisement in the "Journal Officiel" shows that the General Liquidator of Sequestered Pharmacies at Metz offered for sale at Audin-sur-Tiche, recently, Gross's Pharmacy, of which the turnover is given at 48,000 fr. Lange's Pharmacy at Moyeuve (turnover about 127,600 fr.) is likewise for disposal. Tenders were invited for the businesses, the actual premises being sold by private auction.

SIXTEEN THESES were submitted to the Paris Faculty of Pharmacy for the Doctorate in Pharmacy during 1920. The subjects treated included treatises on the thiosulpho-carbonates and xanthates of cobalt and nickel; researches on copper salts of aminosulphonic acids; the action of formic acid and hexamethylenetetramine; the morphology of the tuberculosis bacillus; zinc in the human frame; microbe fermentations in (war) wounds; Chinese therapeutics and hygiene, etc.

NOBEL PRIZEMEN.—M. Charles Edouard Guillaume, who has been awarded the Nobel Prize for Physical Science, is Director of the International Bureau of (Metric) Weights and Measures at Sèvres. This interesting institution was described in detail in the *C. & D.* some years ago in a special article. M. Guillaume is the discoverer of "invar," an alloy of steel and nickel. The director of the Pasteur Institute at Brussels, M. Bordet, has been awarded the Nobel Prize for Medicine.

M. BÉHAL, who has been elected a Member of the Academy of Sciences (in place of the late M. Armand Gautier) is Professor of Toxicology at the Paris Faculty of Pharmacy. He was born at Lens in 1859, and after taking his pharmaceutical diploma he worked in Friedel's laboratory. In 1889 he became assistant-professor at the Faculty of Pharmacy. He has lectured at the Sorbonne (Faculty of Sciences) since 1898. He rendered excellent services during the war as director of the National Office of Chemical and Pharmaceutical Products.

THE MINISTER OF JUSTICE has conferred the "Medal of French Gratitude" on a large number of civilians who rendered voluntary service in hospitals, etc., during the late war, among whom are included M. A. A. V. Marie, pharmacist, of Lisieux (Normandy), who for four years gave gratuitous medical and pharmaceutical service at Meurchin and six other villages in the Pas-de-Calais, as well as at Meurchin Hospital; and Madame Bécard, who worked "devotedly night and day" in the pharmacy of No. 104 Hospital at Boulogne-sur-Mer.

M. GEORGES LEMOINE, Professor of Chemistry at the Ecole Polytechnique, was installed as the 1921 President of the Academy of Sciences recently. He thanked his colleagues for the honour they had conferred upon him, and spoke of the desirability of a closer connection between the Academy and the French scientific organisations. His address included some pertinent suggestions as to the desirability of avoiding private conversation during the sittings and of reading papers in an audible tone. M. Lemoine has been a member of the Chemistry Section since 1899.

PETROLEUM exists in Alsace, but M. Paul Chambrier, director of the Pechelbrom establishment, tells us it does not gush out in springs as it does in America and elsewhere. Alsace has a few intermittent springs, but as a rule the petroleum has to be pumped, and the question is whether the output will be worth the expense. The German company which grouped the Alsatian petroleum industry succeeded in increasing the output to 50,000 tons per annum, and some 900,000 tons has been produced. M. Chambrier thinks there is another 2½ million tons available. In the meantime, a refinery is being built capable of dealing with 75,000 tons per annum.

ENGLISH FIRM LEAVES FRANCE.—The announcement made by the Hull firm, "La Pacotine, Ltd.," that they have decided to cease carrying on business in France on account of the arbitrary assessment of war profits made by the fiscal authorities, has attracted some attention in Anglo-Parisian commercial circles, especially the concluding paragraph of their announcement, stating: "It appears to us that the real object of the fiscal authorities is to render the existence of English companies impossible in France." There is a feeling in French commercial circles that the burden of taxation caused by the war is being borne to an unfair extent by commerce as distinguished from agriculture. The fact that the majority of the French electorate is composed of agriculturists will sufficiently explain this tendency.

ANOTHER PATRON SAINT.—The committee of the Students' Association of Amiens inserted the following notice in the local Press:

Doctors and Pharmacists.—According to custom, the Amiens students, respecting their traditions, will come to give you their nocturnal serenade Sunday night, being the eve of the festival of Saint Nicholas. May you be generous! Although the students of Amiens belong to the local school of medicine and pharmacy, their choice of this fête seems to be founded on the fact that St. Nicholas is there considered the patron saint of youths (as St. Catherine is of maidens and St. Barbe of married men), rather than on the ground that the Archbishop of Myra was in olden days often connected with pharmaceutical guilds, doubtless on account of the legend

Cujas tomba fert oleum

Matris olivæ nescium

Quod natura non protulit

Marmor sudando parturit,

which, of course, operated miraculous cures.

PARIS SOCIETY OF PHARMACY.—The principal feature of the recent meeting of the Paris Society of Pharmacy is a review of the work during the previous year, read by the outgoing secretary. This time-honoured custom was observed by M. Bernier, who alluded to the distinctions conferred upon various members of the Society during that period. The new President, M. Bougault, then took the chair, and delivered a short address. He insisted on the modern evolution of pharmacy, and the increasing necessity for the wider study of chemistry and bacteriology, and paid a passing tribute to the services of M. Vaudin, the retiring treasurer. M. Bougault also read a paper by M. Robin (of Tournus) on benzochloramine and benzobromamine. M. Lantenais presented the report of the committee on the candidates for corresponding memberships. This matter was put to the vote at the subsequent meeting. The general secretary (M. Bourquelot) reported that M.M. Béhal, Berlioz and Dumont-hiers were now honorary members, and that there was now one vacancy for a resident member.

THE COMPETITIVE EXAMINATION for the title of "Pharmacien Chimiste de Santé Militaire" (Army Medical Pharmacist-Chemist) is to be annual, and open to all army first-class pharmacist-majors and to those of the second class who have two years' service. The number of posts will annually be decided by the authorities. In peace time those holding this qualification will test the drinking-water of troops, examine army medical stores and food supply, and do general analytical work. In war time they will be placed in military chemical laboratories and in the principal toxicological laboratories. The assistant professors of chemistry at the Val de Grâce Military Hospital will hold the new grade by virtue of their office. Other candidates will be examined by a jury presided over by the Inspector (the highest pharmaceutical grade in the French Army), and comprising the Val de Grâce professor of chemistry, a professor of chemistry from one of the Faculties of Pharmacy, a representative of the anti-adulteration technical services at the Ministry of Agriculture, and an "army medical pharmacist-chemist." This last-named will, of course, be non-existent at the 1921 examination, so it has been arranged to replace him (for this occasion only) by a "principal^N pharmacist or "a first-class pharmacist-major qualified by his titles and work."

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

Cape Province.

INDISCRIMINATE USE OF ASPIRIN.—At the last meeting of the Cape Province Medical Council Dr. Marius Wilson brought up the subject of the indiscriminate use of aspirin by the public. He said that, with many people, it had reached the stage of drug addiction. Numbers of cases in which very serious effects had been produced had come under his notice. He detailed several of these, in some of which obscure and grave cardiac symptoms had been observed, for which no explanation could be found until it was discovered that the patients had been heavy aspirin takers. It had been said by others, and, he believed, with perfect truth, that a large proportion of the deaths during the influenza epidemic of 1918 were from aspirin taken in huge doses. He moved that the attention of the Public Health Department be drawn to the matter, and suggested that such drugs be placed on the Poisons Schedule. Dr. Johnson seconded. Dr. Wood supported, quite confirming what Dr. Wilson had said, and stating that he was sure that many deaths from aspirin occurred in the influenza epidemic. Dr. Wilmot thought that Dr. Marius Wilson's motion constituted rather a "big order," the end of which they could not quite see. Dr. Petersen thought this was a matter for the branches of the British Medical Association, and thought that the Council should communicate with them before taking any action. Dr. Darley-Hartley said that he could not support the motion as it stood, but would do so if the mover would omit any reference to the Poisons Schedule and would confine the motion merely to bringing the subject to the notice of the Public Health Department. Dr. Anderson said that he was quite alive to the great harm done by the indiscriminate drugging of aspirin by people, but he hesitated about taking action. He was inclined to think with Dr. Petersen that the British Medical Association Branches should discuss the subject. The President said that he could quite understand the importance of the subject, and was quite horrified to hear what Dr. Wilson had told them, but he still held the opinion that he expressed on many occasions, that the Council should not deal with any matter not specifically laid down in the Act or directly referred to it by the Government. Dr. Wilson agreed to modify his motion as suggested, and, on being put, the mover and seconder, with Drs. Wood and Darley-Hartley, voted for it, there being thus a tie. The President gave his casting vote against the motion, which was accordingly lost.

Natal.

EVENING CLASSES have been held for about a year for apprentices to pharmacy at the Technical College, Durban. Hitherto the subjects taken have been chemistry and botany, both of which have been handled by lecturers on the permanent staff of the College. Commencing in March, however, a new departure was launched. For three hours every Wednesday evening the pupils are to be instructed in pharmacy and materia medica. To this end the services of Mr. R. W. Gelling, Ph.C. (medallist of the Pharmaceutical Society of Great Britain in 1906), have been secured. The pharmaceutical laboratory is being fitted with a complete outfit of bottles and apparatus, the funds for which are being subscribed by the Pharmaceutical Society of Natal and by individual chemists. It is to be hoped that the latter will respond generously to the appeal of the Pharmaceutical Society.

CHEMISTS' SALARIES QUESTION.—The Durban Chemists' Employees' Association is in full swing. An arrangement was arrived at by the Association and the employers on the question of salaries. It happened that Mr. Dunkerton, manager of the Durban branch of Lennon, Ltd., was on a visit to Cape Town at the time, and on his return he repudiated the agreement arrived at in his absence. A conference of the employers' executive and the Associa-

tion's executive unfortunately proved abortive, and matters remain *in statu quo*. It is only fair to the other employers who agreed to the scale to state that Lennon, Ltd., are the only house who refuse to fall into line. Mr. Dunkerton informed the Association by letter that he hopes to review the question of his own staff's salaries at an early date, so that Lennon's employees are not without hope that everything will be settled amicably in a short time.

Transvaal.

MR. R. MACINTOSH, President of the Pharmaceutical Society of the Transvaal for the second year in succession, hails from the North of Scotland, where he served his apprenticeship to the drug-trade with Mr. James Kerr, of Grantown-on-Spey. Mr. Macintosh studied at "Duncan's," Edinburgh, and qualified in 1894. Proceeding to London, he continued his studies at the Metropolitan School of Pharmacy (late Watson Will), and passed the Major examination in 1895. He gained wholesale manufacturing experience while in charge of the laboratories of Langdon, Edden & Co., Wilson Street, Finsbury, London, and Brown Bros. & Co., Glasgow. Emigrating to South Africa, Mr. Macintosh went to Rhodesia about the end of 1897, where he remained till the conclusion of the Boer War. After a short visit to Great Britain, followed by a trip to Canada and the United States, he returned to South Africa and settled in Johannesburg, where he established himself in business in 1904. Mr. Macintosh is well known to all pharmacists in the Transvaal—especially to the younger members of the calling, many of whom passed through his hands in the years immediately after the passing of the Transvaal Pharmacy Ordinance of 1904. At that time there was no provision for pharmaceutical education in the Transvaal, and in response to numerous requests Mr. Macintosh took up this work, with great success. Mr. Macintosh disposed of his business—The Marlborough Pharmacy—in Doornfontein to take over the management of Messrs. Petersen's house in Johannesburg, in succession to Mr. John Main, on the latter becoming managing director of Messrs. Petersen's, at Cape Town. Mr. Macintosh is examiner for the Pharmacy Board of the Transvaal, which position he has held for several years, and at present examines in practical pharmacy and dispensing. The fact that he has been elected President of the Pharmaceutical Society for the second year in succession is a tribute to his popularity in the trade.



MR. R. MACINTOSH.

Business Changes.

MR. E. OSCAR HARRIS, chemist and druggist, Latchford, Warrington, has purchased the business of Mr. H. M. Ashton, chemist and druggist, 63 Sankey Street.

R. J. & A. ATKINSON, chemists, Bradford, have purchased the business of Mr. E. A. Holloway, chemist and druggist, 136 The Broadway, Southend-on-Sea, who is retaining his dental connection at the same address. The transfer was effected by Orridge & Co., 56 Ludgate Hill, London, E.C. 4.

Gazette.

Partnership Dissolved.

HOLMES, H. D., WADDINGTON, A., and SUTCLIFFE, W. H. F., Gills Court, Crown Street, Halifax, manufacturing chemists and edible oil and compound merchants, under the style of A. Waddington & Co., so far as concerns W. H. F. Sutcliffe.

Legal Reports.

Trade-marks Dispute.—The First Division of the Court of Session at Edinburgh, on March 19, disposed of an appeal by George Walker & Sons, Ltd., manufacturing chemists, Reid Street, Bridgeton, Glasgow, against a judgment of Lord Hunter, who refused an injunction restraining Robert Kego, chemist, 18 Stirling Drive, Rutherglen, and his wife, Mrs. Kego, M.P.S., from in any way advertising or selling any chemical or medicinal goods under certain specified trade-names (*C. & D.*, January 15, p. 51). Until November 1919 Robert Kego was complainers' manager. It was ascertained by the complainers that after that date Robert Kego had procured the registration as trade-marks in his own name of various names of medicinal goods, which names had been suggested by him while in the complainers' employment and had been approved by the directors of their company as names for preparations to be manufactured and sold by them. They accordingly raised an action against Kego for a declaration that the trade-marks were their property, and in May last Lord Blackburn found in their favour and directed that the entries in the Register of Trade Marks should be expunged. That judgment was not appealed, and therefore became final. The complainers now said that in March 1920 the respondents, under the name of the Eusaline Co., issued to chemists and others, including the complainers' customers, a circular in which they solicited orders for preparations bearing certain names registered as trade-marks that had been dealt with by Lord Blackburn, and they craved an injunction. Respondents said that the recipes from which the substances were prepared were invented by Robert Kego, who, they averred, alone knew the recipes, and never communicated them to the complainers. Lord Hunter, before whom the injunction came, recalled the interim injunction granted, refused the order, and awarded respondents costs. The First Division reversed Lord Hunter's judgment, restored the interim injunction, and sisted the case until the matter had been disposed of by the Registrar of Trade Marks. The Lord President (Lord Clyde) said that the effect of Lord Blackburn's decision was that while Robert Kego's name was on the Register the beneficial interest was in the complainers', and as soon as Kego's name was expunged that left the way clear for the registration of the complainers. His lordship thought that the complainers were entitled to have the nominal owner interdicted from using their trade-marks, and he saw no reason why the complainers should not at once be placed upon the Register. His lordship understood that Kego's name had been expunged since this action was commenced, but that the Registrar was awaiting the result of the action before entering the names of the complainers. He was of opinion that the Registrar should have proceeded to put the complainers' names on the Register, and the case would be sisted until that was done. The other judges (Lords Mackenzie, Skerrington, and Cullen) concurred.

"An Error of Judgment."—At Bow Street Police Court, London, on March 17, before Mr. Chester Jones, Squire & Co. (Birmingham), Ltd., trading as Haynes, Coffin & Co., 72 Southampton Row, W.C. 1, were summoned for selling to the prejudice of the purchaser calomel ointment which was deficient in calomel to the extent of 31 per cent. Mr. C. H. Kirby (Neve, Beck & Kirby) defended. Mr. Hawkes, prosecuting for the Holborn borough council, stated that an inspector entered the defendants' shop and asked for some 33 per cent. calomel ointment. The council's analyst certified that it consisted of 22.75 per cent. calomel and 77.25 per cent. benzoated lard. The defendants had had their portion analysed by Mr. Rigby, county analyst for Warwick, who found the deficiency of calomel to be only 25 per cent. The importance of the matter consisted in this: that 33 per cent. ointment was an absolute specific for the cure of a certain venereal disease, whereas anything less strong, and certainly anything below 25 per cent., was not effective for the purpose. Mr. Kirby said he would not trouble the prosecution to call evidence in the case, as the main facts were not disputed. The defendants had had this business in

Southampton Row for ten years, though they still carried it on in the name of the former owners. During that period a large number of samples had been taken for analysis, and all had been found correct. In the present instance no written prescription was presented. The assistant who received the order consulted the manager about it, and as no demand by prescription or otherwise for so strong an ointment had been previously received, and as in this instance the article was not asked for on a prescription, it was decided that it would not be safe to provide it of that strength. Referring to the different results of the two analyses, Mr. Kirby pointed out that the ointment consisted of calomel and lard, and it was difficult to get it so equally mixed that every portion would contain exactly the 25 per cent. of calomel. The magistrate said he was surprised to hear Mr. Kirby say the manager had never heard of 33 per cent. calomel ointment being asked for before. Such a preparation had been well known for the last five years at least. Mr. Kirby said that the defendants had searched their prescription-book, and could find no record of such a strong calomel ointment being supplied. He believed it was an American cure brought over for the benefit of the American soldiers who came to this country during the war. He submitted that in this case there had been at all events nothing worse than an error of judgment. There could be no question of the defendants gaining any money benefit. Mr. W. A. Grant, chemist and druggist, manager of the shop, stated that he had been at this shop only about eighteen months, having been away in the army. The Magistrate: That may account for you not having heard of the 33 per cent. ointment. Why did you not make it up to 33 per cent.—which was what was asked for?—Because I had never heard of such a strong preparation before, and I thought it might have very dangerous effects. Mr. Kirby submitted that no clearer evidence of *bona fides* could be wished for than that given by Mr. Grant, who was a gentleman of twenty years' experience in the trade. The Magistrate: I know, but he does not appear to have kept his eyes and ears open. Mr. Kirby: Is there any reason for saying that? The Magistrate: Well, this 33 per cent. calomel ointment is a well-known thing now, and I should have thought every chemist in London knew about it. After some further discussion, the magistrate said he was not going to deal severely with the defendants, as he did not think that in what had been done there had been any attempt to gain any pecuniary advantage. He would simply order the defendants to pay 3*l.* 3*s.* costs.

Bankruptcy Report.

Re Heinrich Odomar Hugo Wiskeman (trading as H. Wiskeman), chemical merchant, Wool Exchange, Basinghall Street, London, E.C.—Creditors under this failure met at the London Bankruptcy Court on March 17 before Mr. W. Boyle, Official Receiver. Maddison, Sterling & Hunn represented the debtor, who roughly estimates his liabilities at 11,500*l.*, and values his assets at 5,000*l.*, apart from a number of shares and securities the value of which has yet to be ascertained. The Chairman reported that it appeared from the debtor's statements that he was a German, who came to this country in 1880. Three years later he commenced business as a wholesale chemical merchant, under the style of H. Wiskeman & Co., with a capital of 60*l.* While on his honeymoon in June 1898 his manager absconded with 4,000*l.*, with the result that he (debtor) was made bankrupt in the following November. He subsequently acted as manager to an Ipswich firm of sugar merchants, and in 1892 his friends formed the "Nitrogen Co., Ltd.," with offices at Gravesend, to manufacture chemical manures, and appointed him to the post of managing director. The company was not a success, and went into compulsory liquidation two years later. In 1905 his friends promoted "Wiskeman, Ltd.," with a capital of 4,000*l.*, to manufacture chemical manures, and he acted as a director of that concern at Willesden until 1907, when the local authorities ordered the company to remove further out; that step would have entailed heavy expenditure, to

avoid which the company closed down the works and went into voluntary liquidation. Having obtained his discharge from the former bankruptcy, the debtor in 1907 recommenced business as a chemical merchant at 106 Wool Exchange. He traded there in his own name until August 1916, when he was called upon, as a German, to obtain permission to continue, and subsequently carried on under the supervision of Cooper, Scott & Co., accountants, until July 1918, when he was allowed to resume control, and had since traded as before the supervision order was made. The debtor had further stated that in 1915 he commenced business as an artificial pumice-stone manufacturer and merchant, taking a factory at Ormside Road, Old Kent Road, and trading as the Ormside Mills Co. At the end of 1916 his technical manager, Mr. J. J. Burton, refused to continue in the employment of a German, and as the business could not be carried on without him the debtor agreed to sell it to him as a going concern for 1,800*l.*, to be paid in half-yearly instalments. Mr. Burton did not keep up the payments, and in order to keep the business going, as he believed it to be a good thing, the debtor lent him further moneys from time to time. In August 1920 Mr. Burton transferred the business to a company registered as "Ormside Mills, Ltd., with a nominal capital of 14,000*l.* At that time Mr. Burton owed him 3,200*l.*, in consideration of which the debtor was allotted 2,000 fully-paid 1*l.* shares in the company, the balance of 1,200*l.* remaining as a loan. The debtor also purchased 500 shares at par. Being a German the shares could not be registered in the debtor's name in the books of the company, and he arranged for a Mr. Apted, of Reigate, to become a director, and to hold the 500*l.* shares on his behalf. Those shares would be handed over to the Official Receiver, but the certificates for the other 2,000 shares were held by the debtor's solicitors as security for moneys due to them. They were of no present marketable value, but the debtor was of opinion that they would ultimately become of value. At the time the company was formed the debtor entered into an agreement to sell their goods in the U.S.A. for a term of ten years at a commission of 2½ per cent. on the sales. The company hoped to be in a position to commence delivery of the goods at the end of this month at the rate of 100 tons a week; the debtor had obtained orders to supply American firms to the extent of 150 tons a month, which would carry a commission of 100*l.* Then the debtor had a claim against the Inland Revenue for about 2,000*l.* in respect of the refund of an amount paid under the excess profits duty. He had further stated that some fifteen months ago he entered into an arrangement with a friend in Rome to deal in the course of exchange on the spot. In order to obtain capital for the purpose, the friend drew bills which the debtor accepted to the extent of 5,000*l.*; one half of the number were discounted with Cox's Bank at Rome, and the other half with the debtor's bankers in London. The agreement was for the friend to take up the bills and renew them from time to time until the profit from the transactions at Rome had been received. The bills were renewed for a time until Cox's Bank declined further grace, and having obtained judgment for 2,500*l.* against the debtor they instituted these bankruptcy proceedings. The debtor attributed his failure to the action of another person through which he had lost 8,000*l.* during the last six months; also to the loss of eighty-two casks of carbonate of potash, valued at 2,150*l.*, they having been stolen from a barge on the river. In reply to the chairman, the debtor said he wished to submit a proposal for the payment of a composition of 15*s.* in the *£* by instalments extending to the end of the year. The meeting was adjourned till April 14 to enable the debtor to make the necessary arrangements.

SUCCESSORS OF MACHIAVELLI.—"The headquarters of the German cocaine trade appears to be at Darmstadt, and there seems to be no effort on the part of the German authorities to check the traffic; in fact, it is generally believed in Paris (says Reuter) that the Germans are anxious to spread the drug habit in the Allied countries, and are giving cocaine traffickers all facilities."

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

F. BONAVENTURA & Co., LTD. (P.C.).—Capital, 500*l.* Objects: To carry on the business of importers, exporters, general merchants, capitalists, financiers, concessionaires, etc. R.O.: 47 Eastcheap, London, E.C.3.

ELLIOTTS, THE CHEMISTS, LTD. (P.C.).—Capital, 3,000*l.* Objects: To take over the business carried on at 279 High Street, Gateshead, as "Elliotts, the Chemists," and to carry on the business of wholesale or retail chemists, druggists, opticians, etc. The first directors are: P. E. Elliott, 279 High Street, Gateshead-on-Tyne, and R. Elliott, 1 Catherine Terrace, Gateshead-on-Tyne. R.O.: 279 High Street, Gateshead-on-Tyne.

SIR THOMAS BEECHAM'S ESTATE, LTD.—On March 22 Mr. Justice Astbury made a compulsory winding-up order for this company, which was registered in 1918 with a capital of 500,000*l.* (*C. & D.*, 1918, p. 45).

SOUTHALL BROS. & BARCLAY, LTD.—The annual meeting was held at Birmingham on March 21, Sir Thomas Barclay, chairman of the company, presided, the report (*C. & D.*, March 19, p. 52) being the twenty-fourth to be presented to the shareholders. In moving the adoption of the report, Sir Thomas said: Last year he mentioned the steady increases in prices of drugs and chemicals, but since the middle of 1920 prices in practically every department, particularly the prices of fine chemicals, have steadily depreciated, until now, in some instances, they are actually approaching pre-war values. The peculiar conditions under which Japan was able to force up the prices of some of her monopoly products has ended, and the prices of the commodities referred to have dropped with tremendous rapidity. Dealing with the effect of politics on prices, he said immediately the decision of the Allies became known with reference to the 50 per cent. tax on German exports prices stiffened, and in many cases are 25 per cent. to 30 per cent. higher than they were just before the London Conference. The hoped-for stable conditions in the foreign markets have not altogether been realised. In the latter part of the year the rapid drop in the value of the rupee produced a set of conditions in India which are without parallel in our recollection. The Indian traders indented on the basis of a 2*s.* rupee, and when the bills were presented the value of the rupee had dropped to something like 1*s.* 3*d.* This involved considerable loss to the importers, and a consequent stagnation of trade. In spite of this, however, the directors are able to record that, taking the year as a whole, the returns of the export department show a most satisfactory increase. Last year the anticipations of a successful season in the Norwegian cod-liver oil factories were realised, but owing to the extremely high costs of liver, fuel, and incidental sundries, the cost of oil proved to be high. Here again, however, owing to the financial weakness of holders, prices broke towards the end of the year, and sales were made at much less than actual cost of manufacture. As regards the present season, fish are plentiful, and the livers yield high percentages of oil—the oil is of excellent quality, and everything points to a very successful season, although our latest advice is that bad weather has to some extent interrupted fishing. Reference was made to the important researches on the vitamin content of cod-liver oil. The Vitafer works in Ireland and the chemical and pharmacy laboratories at Saltley are working satisfactorily, and the new speciality, "Phenoquin," is obtaining increasing favour among medical men. The burning question of the day, the Draft Regulations issued by the Home Office under the Dangerous Drugs Act, was also dealt with, and the chairman concluded by acknowledging the skilful help and devotion to duty of the managers, staff, and work-people who have so largely contributed to the successful result of the year's work. The report was carried unanimously. The retiring directors, Sir Thomas Barclay and Mr. E. W. Mann, were re-elected.

Dangerous Drugs Act Regulations.

Hull Chemists' Deputation.

A DEPUTATION of the Hull Chemists' Association waited upon Colonel W. Lambert Ward, M.P. for North-West Hull, on March 16, to place before him the views of the Association with reference to the Draft Regulations made under the Dangerous Drugs Act. Mr. H. Newton, President, urged that if the proposed Regulations laid down by the Home Office became law, it would only cause vexatious restrictions to chemists and afford no better protection to the public than at present existed. Mr. A. Richardson added that chemists have already a large amount of clerical work in connection with the National Health Insurance, and the Draft Regulations would increase that work. After also hearing Mr. W. G. Bennett, secretary, the hon. member expressed his sympathy with the views put forward, and promised that the Regulations would receive his earnest attention.

Letter to M.P.'s.

The following letter was on March 19 sent to Scottish members of Parliament by Mr. J. Rutherford Hill, resident secretary in Scotland of the Pharmaceutical Society, on the subject of the Draft Regulations made under the Dangerous Drugs Act:

At the monthly meeting of the Pharmaceutical Society, held in Edinburgh on Wednesday, March 16, the appended resolution was unanimously adopted, and I was instructed to forward a copy to you. You will observe there are two points on which we are in some doubt—namely, (1) the possible exclusion from the scrutiny or review of the Departmental Committee of any private settlements made between the Home Secretary and certain interested parties, and (2) the possible limitation of amendments on the alleged ground that they traverse what the Home Secretary describes as the main principles on which the Draft Regulations are based. We deem it important that the Departmental Committee should have full power to consider the whole situation and advise and report to the Home Secretary on any evidence submitted on any matter affected by the Regulations. We are sorry to say we do not feel quite satisfied that the remit to the Departmental Committee is adequate to remove the danger of objectionable and burdensome, and at the same time futile, Regulations being enacted. Consequently we have to maintain an attitude of extreme vigilance.

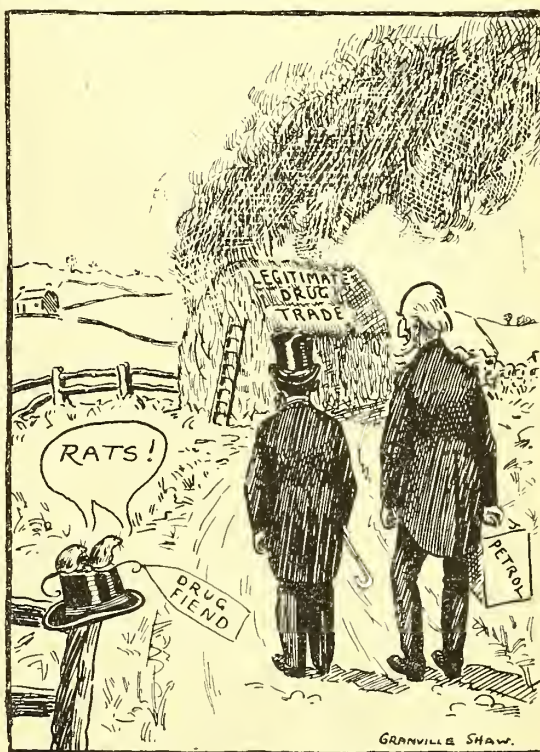
The following are the resolutions referred to: "This meeting desires to express the thanks of Scottish pharmacists to members of the House of Commons, and especially to Scottish representatives, for their effectual aid in securing the setting-up of a Departmental Committee to consider and report to the Home Secretary as to modifications of the Dangerous Drugs Act Draft Regulations which had elicited such universal condemnation. This meeting at the same time emphatically protests against any attempt to exclude from the criticism or review of the Departmental Committee any private or sectional agreement that may have been made with interested parties regarding any part of the Draft Regulations such as might be construed to be the intention of the remit. This meeting further demands that the Departmental Committee shall be free to consider and report upon the main principles on which the Draft Regulations are based, and should be empowered to hear any evidence submitted to them on any matter affected by the Regulations. Meantime the situation remains critical, and demands the utmost vigilance to prevent the enactment of objectionable and burdensome restrictions of no real value in preventing the evils associated with the abuse of narcotic drugs."

Farmers' Protest.

The question of the Draft Regulations under the Dangerous Drugs Act, 1920, was raised by the chairman (Mr. A. J. Hickman) at the meeting of the Executive of the Northamptonshire Farmers' Union at Northampton, on March 19, and the following was passed unanimously for transmission to the county M.P.'s: "This meeting strongly protests against the proposed Regulations in regard to the administration of the Dangerous Drugs Act, 1920, which make it impossible for farmers to keep many necessary animal medicines in stock in case of emergency."

Press Opinions.

The personal qualification is the keystone of the arch, and our primary fight is to secure that that personal qualification shall be regarded as the surest safeguard. In order to make sure that no leakage can take place, it needs very little addition to the present Poison Laws. It seems to us that the Department most concerned with administration of the laws was absolutely ignorant of what the Poisons and Pharmacy Laws really were. The move made into Part I. of the Schedule of all these drugs, in conformity with the Dangerous Drugs Act, completely removed the need for any regulations so far as dispensing and sale by chemists were concerned. The Regulations should have been made applying the Poison and Pharmacy Laws to hospitals and institutions, and then they could provide their fancy regulations against illicit traffic to their heart's content. We are only at the beginning of the struggle for our rights, and we urge pharmacists to keep a keen and watchful eye on developments. We must kill this attempt to govern by departmental edict, and take good care "that government of the people, by the people, for the people," shall not perish from the earth.—"The Script."



THE "SHORT" WAY.

The Home Office idea of combating the illicit trade in narcotic drugs is to destroy the legitimate trade in drugs.

AN ADVERTISING POSSIBILITY.—It is reported in the daily Press that, finding that the discourses of the vicar of Hampstead Garden Suburb Church have been interrupted by coughing, a parishioner has sent a supply of pastilles for free distribution by the sidesmen. It is not stated whether each pastille is stamped with the manufacturer's name.

AUSTRALIAN SANDALWOOD.—In the year ended June 30, 1920, 14,000 tons of sandalwood was shipped from Western Australia to China for use in making incense. Besides this, two distilleries are supplied. As young trees are being cut down for exportation, the Government of Western Australia is considering a law forbidding trees under 14 in. in diameter to be cut. It is even possible that the Government may take over the sandalwood industry.

Chemical Society.

THE annual general meeting of the Chemical Society was held in Burlington House, London, W., on March 17, the President, Sir James Dobbie, F.R.S., being in the chair. From the report of the Council presented to the members, the total number of Fellows on December 31, 1920, amounted to 3,721, a net increase of 152 Fellows over the number for the preceding year. The total annual expenditure of the Society increased to 15,046*l.* 14*s.* 2*d.*, of which no less than 2,171*l.* 0*s.* 5*d.* is attributable to the increased cost of publications, the additional cost of printing the Journal alone being responsible for 1,340*l.* 9*s.* 4*d.*, while the income aggregated 13,736*l.* 7*s.* 7*d.* In 1920 the Journal had a total of 3,356 pages, compared with 2,665 pages in the preceding year. In this connection it is interesting to note that, whereas the cost per page of the Journal amounted to 17*s.* 9*d.* in 1914, it had advanced to 2*l.* 4*s.* 8*d.* in 1919 and to 2*l.* 9*s.* 3*d.* in 1920. The President then announced the names of the Fellows elected to fill the vacancies on the Council, Sir James Walker having been elected President for the ensuing year. Two proposals for the alteration of the by-laws were then considered: (1) That in By-law XVI. for the words "the Society shall have the right to retain the manuscripts and illustrative drawings of all papers sent to the Society" there be substituted the words "the manuscript and illustrative drawings of any paper considered by the Council unsuitable for publication shall be returned to the author immediately on his demand." (2) That in By-law XVI. the passage "It shall consist of such of the papers which have been communicated to the Society, or of abstracts of them, as the Council may determine," be altered by deleting the words, "or of abstracts of them." Both motions on being put to the vote were lost, the Fellows adhering to the view adopted by the Council that it is essential for the purposes of record that the Society shall have the right to retain the manuscript and illustrative drawings of any paper communicated to it; while with regard to the second proposal, its adoption would leave open no middle course between publishing an author's paper *in extenso* exactly as received and refusing to publish it. The secretary made it quite clear that the author's rights are fully safeguarded in every case, and that he is consulted by the publication committee with regard to any matter affecting a paper submitted for publication. At the close of the official business of the meeting, the President then presented the Longstaff Medal to Professor J. F. Thorpe, C.B.E., F.R.S., referring to his contributions, extending over a period of twenty-five years, to organic chemistry, his studies on new syntheses, on cases of isomerism, of the spiral compounds, and alluded to his considerable experimental skill and scientific insight.

The retiring President, Sir James Dobbie, then presented his address on

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a study, in which he had made considerable progress, until he had been compelled to relinquish further work on the advice of his medical attendant. He drew attention to the fact that one of the results of the war had been the fostering of the application of science to industry, thereby fostering the lessons of war in peace. The empiricism which had lingered in our industry was giving way to a new era, and he recalled a statement by Roscoe, to the effect that there was no point published in the Transactions of the Society which might not some day prove applicable to industry. He dwelt particularly upon the fact that it was only when research is based upon a strictly scientific basis, such as was the case from the time of Boyle, that useful results were achieved; the gropings of the alchemists, intent upon one aim, had merely produced desultory results, but nothing systematic, capable of developing science or industry. Therefore it is essential that pure chemistry should be studied for its own sake, and not for a specific object. He likened the scientific study of chemistry to a stream which grows as

it proceeds, while specialised research work resembled more the sinking of a well with its limited scope. As an example of the practical application of a scientific fact, he referred to the application of the gas laws, which had resulted in the discovery of the new process for the manufacture of ammonia, and also rendered possible the hydrogenation of oils. Chemistry had now reached out beyond the earth: it had undertaken the study of the constitution of the sun, stars, etc. Sir James uttered a warning against the dangers attending too great a specialisation in chemistry, and was of opinion that the growth of the technological institutes presented a danger to pure science; manufacturers had found that the chemist with a solid foundation of pure scientific chemistry was of more use to them than the specialised technologist. There was a necessity for hypotheses and theories in chemistry, as there was no finality in theories. Each theory embodies the knowledge of the day, and in this connection he recalled the successive steps leading to the structure theory, the theory of valency; each successive theory as enunciated representing a contribution towards the final result, such as we know it to-day. The differences which arose between Berzelius and Dumas regarding atomic weights were due to the non-application of Avogadro's law; Lavoisier's investigations revolutionised the conception of the day on combustion, and thus each theory built up upon some observation represents a further step forward, imparts a lesson to keep the mind open.

After the meeting the Fellows dined together at the Hotel Cecil, at which the four past Presidents who have been Fellows for half a century were invited: Professor H. E. Armstrong, Sir James Dewar, Sir Edward Thorpe, and Sir William Tilden, but only Sir James Dewar and Sir William Tilden were able to be present.

Practical Notes and Formulas.

Emulsion of Benzyl Benzoate.

THE preparation of a palatable emulsion of benzyl benzoate forms the subject of a thesis by E. T. Brown ("American Journal Pharm."). An emulsion may be readily prepared by the use of acacia and tragacanth, but the latter gum, 2 grams per 100 c.c. in a 20 per cent. emulsion of benzyl benzoate, is stated to give the best results. The most satisfactory flavouring consists of twelve drops each of methyl salicylate, oil of sassafras, and oil of sweet orange.

Quillaia Medium for Colouring Prints.

THE employment of quillaia in place of ox-gall in colouring glossy prints is suggested by a writer in "The British Journal of Photography." The following formula is stated to be useful as a medium for dye solutions and water-colours on glossy P.O.P., enamel bromide, and glossy collodion paper, also for lantern-slide colouring:

Fluid extract of quillaia	...	...	1 dr.
Water	...	...	1 oz.
Alcohol	...	...	1 oz.

Extermination of Insect Pests in Grain.

INVESTIGATIONS carried out with the object of exterminating an insect pest, *Trogoderma khapra*, Arrow, a species of beetle of Indian origin, are described in "Bulletin No. 2 of the Bureau of Bio-technology." A case of insect depredation in stored malt was at first believed to be due to weevil infection, but fuller examination proved *T. khapra* to be the cause. (The presence of the insect in this country is attributed to infected material in shipments of Indian barleys.) Experiments proved that *T. khapra* was more resistant to the usual insecticides than the weevil and other beetle pests, but an atmosphere containing 0.2 per cent. of chlorine was found to have an appreciable effect on the grubs. The walls and floors of the storage rooms were then sprayed with a hypochlorite solution containing 15 per cent. of available chlorine and sealed up for a week, which treatment proved entirely successful.

Festivities.

London Chemists' Golfing Dinner.

THE annual dinner of the London Chemists' Golfing Society was held at the Connaught Rooms, Great Queen Street, London, W., on March 16. Mr. T. E. Lescher, O.B.E. (President), in the chair. Nearly 140 members and visitors, including a fair number of ladies, sat down to an excellent repast, and the proceedings throughout went with that certain liveliness which, it appears, is a characteristic of the Golfing Society's gatherings. Among those present were: Mr. E. T. Neathercoat (President of the Pharmaceutical Society), Mr. W. Sanger (Sangers), Mr. P. Sparks (Boots, Ltd.), Mr. E. Atkins, Mr. C. T. Allen, Mr. C. P. Winchester (Burgoyne, Burdidges & Co., Ltd.), Mr. A. Barritt, Mr. A. Nathan (Glaxo), Mr. C. A. Noble, Mr. J. Humphrey, Mr. E. Beaton, Mr. G. Beaton, Mr. J. Jones, Mr. Arrowsmith (The Apollinaris Co., Ltd.), Mr. H. Skinner, Mr. A. R. Keith, and Mr. Mumford. The spur tables were presided over by Messrs. W. B. Trick (Lewis & Burrows, Ltd.), W. Duncan, M. Carmichael, S. F. Webb, and D. J. Parry. The toast of the evening, that of "The

London Chemists' Golfing Society," was proposed by Mr. E. T. Neathercoat, who confessed that his knowledge of golf was not what it should be. He was able, however, to prove his appreciation of the claims of that evening by the fact that he had cancelled an important engagement on behalf of the Pharmaceutical Society so that he might be present. The display of trophies in front of the President evoked his admiration. With over 100 members the London Chemists' Golfing Society was to be congratulated, and, what was better still, 96 per cent.



THE PICTURE GALLERY.

had paid their subscriptions. It was enough to make the local Associations' secretaries' mouths water! In its distinguished President, Mr. Lescher, with whose name the toast was coupled, the Society had the best possible man for the job. Mr. Lescher, in responding, said this dinner was probably the only function of the kind attended by the Pharmaceutical Society's President at which he did not have to reply to the toast of the Pharmaceutical Society. It was not due to any lack of loyalty, but, on this occasion, they met to "get out of themselves." This was the sporting event of the pharmaceutical year. In a reminiscent speech Mr. Lescher referred to his lengthy term as President of the club, and said he had felt it his duty to propose that honours go round. He drew attention to the latest addition among the cups for competition—the Burgoyne Cup—which he characterised as one of the most delightful examples of the silversmith's art he had ever seen. The various cups and prizes were presented by the President as follows: Sanger Cup, Mr. M. W. Carmichael; Burgoyne Cup, Mr. M. W. Carmichael; Thomson Cup (Crown Perfumery Co.), Mr. F. A. Bell; "British and Colonial Pharmacist" Cup, Mr. L. Hammer; Hill Cup, Mr. W. Ballantyne; Carmichael Trophy, Mr. W. Attwood; Hepburn Shield, Mr. C. Macdonald; President's Prize, Mr.

G. F. Deeth; Mr. Laurie Cohen's Prizes, (1) Mr. S. Tomson, (2) Mr. W. Duncan; the Captain's (Mr. Boyes) Prize, Mr. Percy Trick. Last year's replicas: Sanger Cup, Mr. H. W. Bartlett; "British and Colonial Pharmacist" Cup, Mr. F. A. Bell; Hill Cup, Mr. Gordon Beaton; Carmichael Trophy, Mr. D. J. Parry; Hepburn Shield, Mr. H. W. Bartlett; Thomson Cup, Mr. G. F. Deeth. The recipients were greeted with applause as they accepted the prizes, and Mr. Carmichael was promised that certain things would happen to his handicap so that he would have to improve considerably before he could ever again carry off two cups. (Loud laughter.) A surprise was sprung upon Mr. Deeth, the tireless hon. secretary of the club, in the shape of an honorarium in recognition of his valued services, and his health was pledged with musical honours. "He's a jolly good fellow" was sung with great gusto, and Mr. Lescher apologised for leading off in too high a key for the assembly, aptly remarking that he was tuned for the occasion. Mr. Deeth, in acknowledging, said he now realised the import of wagers that had been made on the prospects of the secretary making a speech that night. He utilised the occasion in explaining the portent of the drawings on the menu-card for the benefit of the uninitiated, and issued a challenge on behalf of Messrs. Macdonald and Carmichael, who offered to play two others, the losers to send a donation of 2l. 2s. to the Benevolent Fund. The challenge was shortly afterwards accepted. Mr. Lescher later announced that Mr. Wigginton had promised a cup for competition from the Erasmic Soap Co. The other toasts were: "The Ladies and Visitors," proposed by Mr. H. Skinner, and responded to by Mr. A. R. Keith, who said that now, with so many cups, surely one or two could be spared for the ladies, who are still awaiting admission to membership—he concluded with a cricket story, seeing his audience knew all the golfing ones; "The President," by Mr. W. B. Trick, Mr. Lescher briefly replying. A capital musical and elocutionary programme added to the pleasure of the evening, and a palpable "hit" was made by a lightning caricaturist, whose efforts at interpreting "Bubbles," with Mr. Carmichael as the "victim," caused the greatest merriment.

Social Evening at Perth.

THE employees of Mr. Thomas Harley, chemist and druggist, Perth, in response to an invitation from Mr. and Mrs. Harley, spent, on March 16, an enjoyable social evening. After tea, Mr. Coutts, on behalf of the staff, thanked Mr. and Mrs. Harley for their many kindnesses. Mr. Harley, in reply, said he considered that the successful year experienced in the retail and manufacturing departments of the business was due to the co-operation of both staffs. During the evening songs were rendered and games indulged in, prizes being presented to the winners.

Ophthalmic Opticians' Dinner.

THE sixth annual dinner, the first since 1914, of the Institute of Ophthalmic Opticians was held at the Restaurant Frascati, London, W. 1, on March 17, Mr. W. T. Comer (chairman of the Council of the Institute) presiding. Others present, numbering about sixty, included Dr. J. and Mrs. Forrest, Mr. and Mrs. J. H. Sutcliffe, and Messrs. O. Aves, F. W. Bateman, G. Bennett, J. Harcombe Cuff (secretary), F. W. Dadd, P. J. D. Fielding (Cork), G. E. Houghton, J. C. Kidd, G. A. Matthews, W. H. Nichols, A. J. Rawling, R. R. Roberts, E. K. Spiegelhalter, and H. L. Truscott. Following the loyal toast, the chairman read letters of apology for absence from the Right Hon. J. W. Lowther (Speaker of the House of Commons), Dr. H. G. Critchley, Dr. G. V. Miller, and Messrs. Boatman and Charnley. Mr. G. E. Houghton (Margate), who proposed "The Institute of Ophthalmic Opticians," spoke of the work the Institute was doing for the optical industry, the efforts being made to establish a clinic, and the need for Government protection for the public and the profession against quacks. The chairman, in reply, expressed a hope that the Institute would become to the optician what the British Medical Association is to the doctor. Touching on ethics,

he said the Institute was doing all it could to protect the members against itinerant vendors, but the help of the Government was necessary. This assistance when obtained must not be a half-and-half measure, and must go further than that accorded to the dentists. Mr. O. Aves (Walthamstow) proposed "The Medical Profession." In the course of a witty speech he explained that the opposition of the medical profession towards the optician was not such a disadvantage as is generally supposed, nothing spurring a man on so much as being looked down upon. He paid a tribute to Dr. Forrest. The latter, who received an ovation on rising, said that the majority of medical men were general practitioners, and were thus indifferent to the claims of the optician. This, however, was not the case with the ophthalmic surgeons, the majority of whom were on the opticians' side. It was not necessary for the refractionist to recognise the disease; it was sufficient for him to know there is disease, and its true nature should be left for others to diagnose. The toast of "Our Guests and Visitors" was proposed by Mr. Nichols (Brixton) and responded to by Mr. T. Burton Miller. Mr. Spiegelhalter proposed the health of Mr. J. H. Cuff, who suitably replied.

Pharmacy on Active Service.

Wellcome Museum Acquisitions.

CHEMISTS who wish to learn, without the fatigue of wandering through some vast war museum, how the pharmaceutical and medical services of the Allies helped to win the war cannot do better than visit the new section of the Wellcome Historical Museum, 54A Wigmore Street, London, W. 1. They will find that the curator, Mr. C. J. S. Thompson, M.B.E., has arranged a collection of relics without any of the vain repetitions that mar the average exhibition. Mr. Thompson cordially acknowledged to a *C. & D.* representative, who looked in for the purpose of seeing these additions and the replica of the very interesting mace referred to in our issue of February 19 (p. 47), the informative hints that he has received from experts, and in particular from Surgeon-Captain Knapp; and he added that there is space for further loans and gifts.

WORK OF THE ALLIES.

Turning first to the work of the Allies, one is struck by the aptness of many of the improvisations and improvements on existing contrivances. In the case of the British Army gas-mask, for instance, the final pattern was preceded by three others, beginning with a primitive affair made of cotton-waste and having a pad soaked in a solution of caustic soda. The set exhibited, which reveals practically at a glance the evolution of the mask, includes the "filters" devised by the late Colonel E. F. Harrison. The Navy at first adopted a gas-mask of a pattern entirely different from that of the Army: it included a tube which depended like an elephant's trunk and was filled with shavings treated with caustic soda. In the next pattern the trunk was folded back. One of the most brilliant pieces of work in the section consists of a set of orthopaedic appliances made by English ladies in Rome, with the help of suggestions from Italian sympathisers. It would appear that a genius for this kind of thing is indigenous in Italy; at any rate, the head bandages, which can be affixed in about ten seconds after reading the printed directions, are a vast improvement on those of conventional styles. Returning to home inventions, the Neil-Robertson stretcher, which encases a man so that he begins to resemble a mummy, allows of the rapid and comfortable transport of the wounded; and the British naval cot deserves an article to itself. It must suffice to record here that its sides, made of white canvas, let down so as to enable the dresser to do his work without disturbing the patient, and every detail relating to lifting and removal has been carefully thought out. Nor must a series of absorbent bandages be overlooked. Beginning with a specimen retrieved from the Crimean campaign,

they include the antiseptic product of Burroughs Wellcome & Co. devised in 1883—one of the first, if not the first of all, to be introduced in any country.

SPECIMENS FROM ENEMY SOURCES.

When we begin to examine the numerous things captured on the field or in enemy submarines, we find that a very different standard of comfort must have prevailed in medical stores on the opposing side. The bandages from the German Army, for example, are seen to be made of crinkled paper, or of lace window-curtains cut into strips, or (in East Africa) from the bark of a tree. The chemicals—*e.g.*, tannalbin and bismuth subgallate—appear to have been dosed out in small packages, with scrupulous regard for economy. Flat packets each containing a ration of insect-powder, minute cartridges labelled (in large print) "*Folia Menth. Pip.*," and little metal containers for a formalin ointment strike one as curious. The apparatus for administering chloroform, like the oxygen cylinder from a U-boat, makes the impression of needless complication. Plaster-mulls were evidently in use, and a list (in pencil) of drugs wanted, taken from a Bavarian field ambulance, might be worth reprinting. The *clou* of the collection, so far as enemy specimens are concerned, is a well-made German ambulance case, somewhat smaller than the corresponding British one, but remarkably complete with ophthalmoscope, dental instruments, and, of course, the larger things required in more serious operations. The stamping of the shape of each instrument in its place on its flexible tray must have saved a good deal of confusion on the part of orderlies.

RELICS WITH A HISTORY.

Brief mention must be made of some of the more spectacular exhibits. The walls are virtually covered, not only with flags, weapons, and photographs, but also with some original paintings and sketches of great value. Among these are a few by no less an artist than Raemaekers, and to one of them is largely attributable the entry of America into the war. The mordant wit of "The Hun Ministry of Munitions," in which a blond beast—the phrase is a German author's—stands gloating amid his retorts, conveyed an essential truth then little realised. A word of praise must be given to the photographs, many of which are unique and of great interest. A quaint mercury bottle from Basra and a sample of the bread ration doled out by the Turks to their prisoners serve as a reminder of distant fronts on which our men distinguished themselves; and the arms, with their suggestions of ugly gashes, will bring to the minds of ambulance workers many of their own exploits. The collection is eloquent of difficulties overcome; and no one who visits it can fail to recognise the public spirit that has made it possible.

Wills.

MR. JOHN MOORE, Regent House, Birstall, Leics., retired chemist, who died on January 5, left estate of the gross value of 5,509*l.* 17*s.*, with net personalty 1,298*l.* 14*s.* 6*d.*

MR. JOHN CANNELL CAIN, D.Sc., F.I.C., F.C.S., 24 Aylestone Avenue, Brondesbury Park, London, N.W., who died on January 31, left estate of the gross value of 8,528*l.* 9*s.* 2*d.*, with net personalty 7,887*l.* 11*s.*

MAJOR JOHN GARROWAY, V.D., J.P., Rosemount, Riddrie, Glasgow, N.B., of R. & J. Garroway, manufacturing chemists, 694 Duke Street, Glasgow, who died on October 31, left personal estate in the United Kingdom valued at 8,603*l.*

ST. VINCENT ARROWROOT.—The production of arrowroot is the second industry of the island of St. Vincent, 2,250,000 lb., valued at 42,222*l.*, being exported in 1919.

FRENCH RESIN.—The considerable decline in price has caused great perturbation in the Landes district, and, unfortunately, no amelioration is in sight. Business in this line is practically stopped.—*Lloyds Bank Monthly Financial Report.*

Position of Pharmacy in Ireland.

A GENERAL MEETING of the pharmaceutical chemists of the six counties in the area of the new Northern Parliament of Ireland was held on March 16 in the rooms of the Chemists' and Druggists' Society of Ireland, Belfast, to consider the steps to be taken to safeguard the interests of pharmacy under the new *régimé*. The meeting, which was convened by the North Irish Pharmacists' Association, was open to all qualified chemists, and was attended by about seventy members from the city and counties. On the motion of Mr. J. A. Bingham (President, North Irish Pharmaceutical Association), seconded by Mr. H. Lancashire, J.P., Mr. H. G. Pring (Grattan & Co., Ltd.) was voted to the chair. The agenda contained the following proposal:

That a committee be formed, and granted full and complete authority to speak and act in all matters on behalf of the drug-trade in Northern Ireland in any negotiations with the Government or other bodies, as outlined at this meeting.

The chairman, in opening the proceedings, said that the business was likely to be the most important they had transacted for a considerable time. Mr. J. J. C. Culbert, member of the Council of the Pharmaceutical Society of Ireland, hon. secretary, N.I.P.A., made a statement on behalf of the committee as to the changes that would follow the application of the Government of Ireland Act, and explained what had led up to the calling of that meeting. He said that the division of Ireland into two parts would necessitate alterations in pharmaceutical administration. The N.I.P.A. Committee, as representing the great bulk of the pharmacists of the North, thought it their duty to go into the matter, which had been discussed at several meetings. A sub-committee was appointed to take legal advice, and the President and himself were assured that the charter of the P.S.I. would become inoperative on the day appointed for setting up an Ulster Parliament, and that it would be necessary for them as a trade to approach the Ulster executive when it was formed and apply for a charter in order to carry on. The trade in Southern Ireland would be in exactly the same position, and would have to approach whatever body was acting as the executive there for similar powers. Someone must act first, and they in Ulster were now taking the initiative in getting the minds of the trade regarding the changes. If it should come that they were forced to have a separate charter in the North, it was suggested it might be possible to carry on until such time as the Southern area would have an executive, and then they would be able to unite again. The difficulty was there would be an interregnum, and, frankly, they did not know where they were at the moment. It was a matter of vital importance to every qualified man to have the authority under which he was working unimpeachable.

Mr. J. A. Bingham supplemented Mr. Culbert's statement. They were not there to discuss separation, but they did want to be ready if it should be that there would have to be a separate charter.

Mr. Lancashire asked, could the Lord-Lieutenant not make an Order in Council to carry on as at present until the two Parliaments were in working order? Every avenue should be explored to see if it was not possible to go on under the Pharmaceutical Society of Ireland. A society in the six counties would be a small affair.

Mr. James Guiler spoke against separation. If there was a pharmaceutical society for Ulster it was possible its certificates would not be recognised in the South or in the Colonies. It would be well to continue under the old Society if they could.

Mr. James Tate, M.C.P.S.I., believed a pharmaceutical society for the six counties would be a source of weakness. For one thing, it would not have the finance to carry on. He had no hesitation in casting in his lot with the P.S.I., which had been doing its best for every licentiate. They should walk slowly, because the present circumstances in Ireland would not last for ever.

Mr. Bingham said there seemed to be a misunderstanding. They were not seeking separation, but they wanted to be ready for eventualities and have machinery ready to set their house in order if it was not found possible under the Act to carry on under the P.S.I. If it was not, then they should have matters in trim for the new conditions, and would not be unprepared. They were not seeking to divide the Society in two, but, if it had to be done, they would be in a position to make the best bargain that could be made.

Mr. Culbert said there was never better feeling between Northern and Southern chemists than at present. The members of the P.S.I. in Dublin would be faced with the same situation. This Act was not sought. It was forced on them, and they must have such organisation and machinery ready that the matter would be dealt with in a businesslike way. The Chairman said there would be no difficulty if one society was to govern the whole country. He did not think there would be any great difficulty in getting the new Government to grant a subsidy if they gave them a charter to carry out the Pharmacy Acts. There was no wish on behalf of the Northern pharmacists to break away from the south.

Mr. R. W. McKnight suggested leaving the matter to the Federation in Dublin.

Mr. Glendinning (Derry) said that in that city they had held a meeting and decided it would be suicidal to break away from the parent Society. It would be impossible to separate. They had not the money to run another Society.

Mr. Tate said the matter was under consideration of the P.S.I. Council. He thought it would be sufficient if a deputation from the N.I.P.A. went to it and expressed its views, and out of the present maelstrom they might evolve something that would bring about a harmonious future. They should do nothing without taking the Council into their confidence.

Mr. W. J. Hardy, M.C.P.S.I., asked that the mind of the meeting be taken as to whether they wished to remain with the P.S.I. if it were possible. This was done, and the meeting unanimously agreed to do so.

In reply, the chairman said that during the interregnum there was nothing to prevent any person selling poison.

Mr. Hardy said he had heard that the Pharmacy Acts would come into operation by order of the Lord-Lieutenant alone when the appointed day came.

Mr. James Dundee urged the passing of the resolution on the agenda.

Mr. M. McDonald said that under Section 61 of the Government of Ireland Act existing bodies would continue to function as heretofore. Did the talk of a separate society originate in desire or necessity? He was opposed to separation, but if it were necessary to start a Pharmaceutical Society for Ulster he was with them in making it effective. It would be a twopenny-halfpenny society, and its qualifications would not be recognised even in Cavan or Donegal.

Mr. Culbert said the difficulty still remained. Their legal adviser stated they would be in the air. They had had enough "wait and see" in other directions, and surely should not hesitate in regard to their own affairs. Nobody wished to have an Ulster Society formed, but they must face the facts.

Mr. O'Hare (Newry), Mr. Howe (Carrickfergus), and Mr. Hall (Larne) continued the discussion.

Mr. Guiler thought the four members of the Pharmaceutical Council present should place their views before the Council and hustle them up to see if they could not have one society in Ireland. The registered druggists had their own representatives on the Council.

Mr. Hardy: We cannot be a deputation to ourselves.

Mr. Bingham asked were they to do nothing till they got word from Dublin that they were "in the soup"? A committee should be formed to deal with such contingencies as might arise and report progress. He was sure the Chemists' and Druggists' Society would not be behind in looking after the interests of their Section.

Several speakers opposed giving plenary powers to any committee.

Mr. H. Crail said the Dublin people were themselves responsible for the idea the North was antagonistic to

them. He proposed that a committee from the meeting be appointed to take any steps that may be necessary and report to the trade.

Mr. Dundee seconded the motion, which was passed unanimously.

The following committee was then selected: Messrs. W. Macartney, J. A. Bingham, M. McDonald, H. F. Moore, J. Guiler, J. Hewton, H. Crail, J. Dundee, R. I. Edwards, D. Henderson, R. W. McKnight (Belfast), C. O'Hare (Newry), J. Wadsworth (Lisburn), W. H. Howe (Carrickfergus), Glendinning (Derry), J. Hall (Larne), and A. W. Mann (Lurgan). On the motion of Mr. Howe, seconded by Mr. Guiler, the four members of the P.S.I. Council present were added to the committee—viz., Messrs. W. J. Hardy, H. Lancashire, J.P., J. C. Culbert, and Jas. Tate.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

MEDICAL STAFF OF MINISTRY OF HEALTH.

Dr. Addison stated in the House of Commons, on March 16, that the number of whole-time permanent and pensionable medical men employed in the Ministry of Health and the Welsh Board of Health is seventy-one.

GERMAN REPARATION (RECOVERY) BILL.

The Committee stage of this Bill was concluded in the House of Commons on March 16. The consideration of the Bill on report took place on March 18, and was followed by the third reading, taken without a division.

The second reading took place in the House of Lords on March 21, when Lord Emmott and Lord Weardale doubted that the Bill would bring about the results aimed at. The third reading was on March 22.

OPTICAL-GLASS INDUSTRY.

Sir A. Holbrook, on March 21, asked the President of the Board of Trade if he will consider the inclusion in the list of key industries of the manufacture of optical glass; is he aware that, on the outbreak of war, Britain was able to supply only 10 per cent. of its needs of this glass; that since the revival of the industry English makers have produced ninety times as much in one quarter as was made during the first quarter of 1913; and that the maintenance of this important industry is already threatened by foreign imports.

Sir P. Lloyd-Greame replied: The position of the optical-glass industry has been the subject of careful consideration in connection with the proposed Bill for safeguarding certain industries. The material increase in output and the effects of foreign imports thereon are within the knowledge of the Board of Trade and the importance of the industry is fully recognised.

COST OF RAT-KILLING.

Sir R. Sanders, in reply to a question in the House of Commons on March 21, said the salaries of the staff of the Rats Branch of the Board of Agriculture for the last twelve months amounted to approximately 4,000/. Expenditure of approximately 1,000/. has also been incurred on the manufacture of rat bait which is supplied for the destruction of rats on Government premises—naval and military as well as civilian. No special funds are provided for propaganda work. The staff of the Rats Branch is fourteen in number, including clerical and outdoor technical officers and those engaged at the laboratory at the rat-bait factory. All the technical officers have practical knowledge and experience in rat destruction. It is not possible to say how many rats have been destroyed as the result of the operations of the Rats and Mice Destruction Act, but it is evident from reports received from the local authorities, who are responsible for securing the observance of the Act, that active steps have been taken in many districts and with good results to reduce rat infestation.

JAPANESE SHAVING-BRUSHES.

Sir A. Holbrook, on March 21, asked the Minister of Health whether the action taken to prevent the sale of

shaving-brushes imported from Japan and found to be infected with anthrax is sufficient to protect the public from this danger; is he aware that a large number of these shaving-brushes are still held by small dealers, who are not in a position to incur monetary loss by carrying out the advice given that the brushes should be destroyed; and will he take action by removing all such brushes and, if necessary, compensating the traders or assisting them by enforcing the shippers to return the infected goods to Japan.

Dr. Addison replied that the further importation of Japanese shaving-brushes into this country, was prohibited by Order in Council in February 1920. All practicable steps have been taken to protect the public from possible danger arising from the sale of such of these brushes as were imported before the prohibition took effect. As regards the second part of this question, a circular on this subject was addressed to medical officers of health in January last, in which the advice was given that if the owners of these brushes were unwilling to have them destroyed, the brushes should be returned to the wholesale dealers.

Personalities.

DR. G. CLARIDGE DRUCE, M.A., Ph.C., Oxford, was among those present at the Levée at St. James's Palace on March 7.

THE Leighton Laboratories makers of Quin-Quenna and Quinolox have recently appointed Mr. F. C. Seager as sales manager.

SIR JESSE BOOT, Bt., has made a gift of 50,000/. to the Island of Jersey, Lady Boot's birthplace, for the purpose of erecting workmen's houses.

MR. PHILIP F. ROWSELL, F.C.S., member of the Council of the Pharmaceutical Society of Great Britain, was elected on March 21 to represent Exmouth on the Devon County Council.

MR. A. C. MILTON, chemist and druggist, Exeter, secretary of the Exeter and District Association of Pharmacists, represented the Association at the annual meeting of the Exeter traders' association on March 18.

MR. W. MASKEW, Ph.C., Hertford, lectured to the Hertford Social Union, on March 14, on "The A.B.C. of Collecting." The lecture was illustrated with original lantern-slides, and proved very entertaining and instructive.

A SUGGESTION is being put forward that in view of the late Lord Moulton's immense public services his ashes should be buried in Westminster Abbey. Mr. Henry S. Wellcome, in a letter to the "Daily Telegraph," strongly supported the suggestion.

MR. ARTHUR T. BAILES, chemist and druggist, secretary of the Bradford Pharmacists' Association, has been presented, on the occasion of opening in business on his own account, with a Sheraton clock and an address by his late colleagues in various branches of J. Savage & Co., Ltd.

MR. P. BARRS, F.C.S., chemist and druggist (managing director of the Western Tablet Co., Ltd., Church Street, Kensington, London, W. 8), was invested with the collar of Junior Warden at the installation meeting of the Earl Roberts Lodge, No. 3151, at the Holborn Restaurant, W.C., on March 15.

PROFESSOR B. M. JONES has been appointed principal of the Manchester College of Technology in succession to Principal Garnett. Professor Jones was formerly professor of chemistry at, and director of, the Edward Davies Laboratories, Aberystwyth, and at one time taught chemistry at the Government College, Lahore. During the war he attained the rank of lieutenant-colonel, won the D.S.O., and became director of a Government laboratory connected with gas warfare.

WHISKY DISTRIBUTION IN THE UNITED STATES.—A Reuter telegram from Washington states that retail druggists will shortly be granted permission to remove whisky from bonded warehouses under an official order.

Birth.

PLACKETT.—At 130 Edward Road, West Bridgford, Nottingham, on March 19, the wife of H. Plackett, chemist and druggist, of a daughter.

Marriages.

DIXON—GRIMES.—At Christ Church, Blackrock, co. Dublin, on March 15, by the Rev. Canon Cullimore, William Albert Dixon, 10 Anglesea Avenue, to Rebecca May, elder daughter of Mr. Henry C. Grimes (representative of Evans Sons Lescher & Webb, Ltd., Liverpool), Maryville, Carysfort Avenue.

LYOYD—PARRY.—At St. Mary Magdalene Church, Wandsworth, London, S.W., on March 16, Bertie Taylor Lloyd, M.C., chemist and druggist (late captain, R.F.A.), 20 Great Darkgate Street, Aberystwyth, to Nancy, daughter of Mr. Richard Parry, Wandsworth.

Deaths.

BELL.—At The Gables, Stapleford, near Nottingham, on March 18, Mr. John Henry Bell, J.P., chemist and druggist, aged seventy-seven. Born at Hickling, Nottinghamshire, the descendant of a long line of yeoman farmers, Mr. Bell himself began life as a farmer, first in his native village and afterwards as a tenant on the Derbyshire estate of the Earl of Harrington. In 1879, however, finding his prospects unsatisfactory, he joined his brother, Mr. C. C. Bell, chemist and druggist, in the purchase of an old-established but somewhat decayed chemist's business, with a post-office attached, at Epworth, Lincolnshire. The idea was that he should manage the post-office department while qualifying as a chemist and druggist. Three months saw him through the Preliminary examination, and exactly three years afterwards he passed the Minor in Edinburgh. For seven years more he remained at Epworth; the brothers then parted by mutual consent, and Mr. Bell purchased the business of Mr. William Barton, Stapleford, where he remained until his retirement in 1911. Meanwhile, the business had continued to increase, necessitating two removals to more commodious premises and the purchase of a second shop. Mr. Bell's activities, however, were not confined to his own business; he took an active part in the life of the town, being for several years vicar's churchwarden at the Parish Church, a member of the local education committee, and a county councillor for Nottinghamshire. In addition to these offices he was for the last fifteen years of his life an active county magistrate. In politics Mr. Bell was a staunch but moderate Liberal. His tastes were literary; he had a good knowledge of English and French literature, and after his retirement from business acquired a sufficient knowledge of Italian to read Dante with enjoyment. The death of his wife two years since shook him severely and undoubtedly induced the gradual break-up of his naturally strong constitution, probably further hastened by an accident, at the time apparently negligible, in the streets of Nottingham. He leaves a son, Mr. C. E. Bell, chemist and druggist, now in business in Lark Lane, Liverpool, and a married daughter, Mrs. Neville Wallis, in whose house he died.

BRUCE.—At 10 Chandos Street, London, W. 1, on March 21, Mr. William John Ironside Bruce, M.B., Ch.B., aged forty-four. Dr. Bruce, who graduated at Aberdeen University, was one of the foremost physicians practising radiography in London. It has lately been recognised that frequent exposure to x-rays apparently brings about a form of blood degeneration (quite apart from dermatitis) which may become fatal, and it is understood that Dr. Bruce's last illness, which began only seven weeks ago, was due to this cause.

BURDEKIN.—At 4 Green Park, Coniscliffe Road, Darlington, on March 16, Mr. William Frederick Burdekin, chemist and druggist, 20 Bondgate, aged forty-seven. Mr. Burdekin had been in business in Darlington for nearly twenty years.

CARPENTER.—At Cranleigh, Manor Road, Burnham-on-Sea, on March 17, Mr. Frederick Ernest Carpenter, chemist and druggist, aged fifty-six. Mr. Carpenter established the pharmacy at Burnham now carried on by Mr. W. H. Woodman, chemist and druggist. He was a prominent member of the local bowling club.

CONSTANCE.—At 17 Belle Vue Avenue, Southend-on-Sea, on March 12, Mr. Herbert Edward Constance, chemist and druggist, aged seventy-one. Mr. Constance qualified in 1871, after studying at the Bloomsbury Square School of Pharmacy. He was for many years at 114 Leadenhall Street, London, E.C. 3.

COULTER.—At his residence, 1 Ellis's Quay, Dublin, on March 15, Mr. Thomas Coulter, R.D. (Checketts & Co., 83 and 84 Queen Street), aged seventy-eight. Mr. Coulter, who was a son-in-law of the late Mr. George Checketts, had carried on the business in Queen Street for a long time. He was a prominent office-bearer at Black Hall Place Methodist Church, and was a generous supporter of philanthropic work, especially the activities of the Sick and Indigent Room-Keepers' Society, of which he was a trustee. His death will be regretted by a wide circle of friends. Mr. Coulter is survived by a widow, a son (the Rev. William Coulter, B.A.), and a daughter (Miss M. E. Coulter, R.D.).

JOHNSON.—At his residence in Clapham, London, S.W., on March 16, Mr. Edward Johnson, chairman of Bourne, Johnson & Co., Ltd., druggists' sundriesmen, 34 and 35 Farnival Street, London, E.C. 4, aged eighty-one. The business with which Mr. Johnson was connected for sixty-seven years was established in 1850 as Bourne & Taylor. There were at that time only three other sundries houses in London—Morgans, Maws, and Mathers. Mr. Taylor, at whose instance Mr. Johnson entered the business, died in 1873 and Mr. Bourne two years later. The proprietorship then passed to Mr. Johnson, who was eventually joined by his three sons and by Mr. Latimer. Last year the firm was converted into a limited company. Mr. Johnson was a man of untiring energy; for more than fifty years he was superintendent of the same Sunday school, and for twenty years he was an office-bearer at Spurgeon's Tabernacle. A serious illness overtook him during the early part of last year, but with characteristic optimism he expressed his intention of resuming his work as far as possible. Mr. Johnson contributed some exceptionally informative reminiscences to the Jubilee Number of THE CHEMIST AND DRUGGIST (C. & D., II., 1909, p. 162)—reminiscences treating particularly of the parts of Kent that he covered as his ground during half a century. He was predeceased by his wife, and, as we have indicated, leaves three sons in the business.

SAUNDERS.—In London, on March 16, Mr. John Frank Saunders, chemist and druggist, aged forty-seven. (See p. 65.)

WEST.—At his residence, 14 Manchester Square, London, W. 1, on March 21, the Right Hon. Sir Algernon West, G.C.B., aged eighty-eight. Sir Algernon West was chairman of the Board of Inland Revenue from 1881 to 1892, and subsequently became an alderman of the London County Council. He was a man of extensive public experience and of many activities, some of which have been left on record in reminiscences published from time to time.



MR. E. JOHNSON.

Trade Notes.

PRICE-LIST.—May, Roberts & Co., Ltd., 7-13 Clerkenwell Road, London, E.C. 1, announce the issue of a new edition of their proprietaries price-list.

EASTER HOLIDAYS.—Raines & Co., wholesale druggists, York, inform us that they will be closed from Thursday evening, March 24, to Tuesday morning, March 29.

AYRTON, SAUNDERS & Co., LTD.—References to the recent fire at the offices of Ayrton, Saunders & Co., Ltd., will be found on p. 62 and in the company's advertisement.

EUCRYL WINDOW-DISPLAY.—An announcement regarding the Eucryl window-display scheme is made in the advertisement in this issue of Eucryl, Ltd., Shirley, Southampton.

BIGGS' SHEEP DIPS.—Veterinary chemists are invited by Biggs' Chemical Works, Church Street, Deptford, London, S.E. 8, to send for particulars of the sheep dips and veterinary remedies made by the company. These agricultural requirements are being well advertised to farmers, so as to promote demand.

PRICE'S BUTTERMILK SOAP.—Price's Patent Candle Co., Ltd., Battersea, London, S.W. 11, are issuing a showcard by Barribal as an advertisement for Price's buttermilk soap. The copy we have seen is a charming production and worth inquiring about. The showcard is sent to any chemist who stocks the soap.

THE CHEMICAL WORKS ROERMOND (H. Raab & Co.), Roermond, Holland, have appointed Mr. Alfred Paul White, 5 Water Lane, Great Tower Street, London, E.C. 3, as their sole agent for the United Kingdom. The company specialises in the manufacture of artificial musk and other raw material for perfumery.

ASPIRIN TABLETS.—Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton, send us a sample bottle of the aspirin tablets they are selling. The tablets, which disintegrate readily, are packed in flat screw-capped bottles enclosed in cartons. The wholesale prices are temptingly low in view of the rising market.

CARRIER CYCLES.—The Mohawk Cycle Co., Ltd., Alexandra Road, Hornsey, London, N. 8, are now making a carrier bicycle with a detachable carrier. It is attached to the frame in such a manner that the parcel contents do not sway about—a frequent cause of dangerous side-slips. The company will gladly send particulars of their carrier cycles to all inquirers.

PHOTOGRAPHIC PLATES.—The manufacturers of photographic dry-plates announce a reduction in the price of plates to 2s. 9d. per doz. for $\frac{1}{2}$ plates, 6s. for $\frac{1}{4}$ plates, and 11s. 6d. for 1/1 plates. As the "British Journal of Photography" remarks, the prices are now at the level of February, 1918. Before the war the price of a dozen $\frac{1}{4}$ plates was 1s. 3d., the highest since has been 3s. 8d. The effect of the high prices of plates has been to increase very much the popularity of films.

PHENOSAFRANIN is an aniline dye sold by Fuerst Bros., Ltd., 17 Philpot Lane, London, E.C. 3, for photographic purposes. It is employed in the new process of developing photographic plates in yellow or candle light. Bottles containing 2 grams cost 1s. 9d. The dye is dissolved in water, and a small quantity of the solution added to the developer, colouring it red, enables the photographic plate to be developed in a yellow light. The advantage is that the detail and progress of development can be watched more easily.

ROYAL SEAL POMADE.—P. H. Galloway, Ltd., manufacturing chemists, 154-162 Walworth Road, London, S.E. 17, are advertising in this issue the "Royal Seal" pomade, a speciality for preventing and restoring grey hair. In connection with an advertising campaign to the public Messrs. Galloway have instituted a coupon system by which a coupon, valued at 6d., and 1s. are presented to chemists by purchasers of the pomade at 1s. 6d. per jar. The value of these coupons is afterwards repaid to the chemist by the company. The Royal Seal Pomade is put up in 3-oz. glass jars.

India and the East.

(From the "C. & D." Correspondents.)

Mr. FRANK ROSS, managing director of Frank Ross & Co., Ltd., Calcutta, has been elected a member of the Calcutta Trades Association for 1921.

THE new Indian Budget was introduced on March 1, and the general *ad valorem* duty was increased from 7½ per cent. to 11 per cent. Perfumed spirit was increased from Rs. 18.12 to Rs. 30.12 per gallon, and all other spirits from Rs. 11.4 to Rs. 18.12 per proof gallon.

INDIAN OPIUM AUCTIONS.—A notification (No. 3669-S.R., dated December 21, 1920) by the Government of Bengal states that the provision opium to be brought forward for sale by public auction in the year 1921 will consist of about 2,500 chests of Benares opium prepared at the Ghazipur factory.

At the installation meeting of Lodge "Endeavour," No. 474, S.C., Calcutta, held on February 28, 1921, Bro. R. A. P. Leslie (Smith, Stanistreet & Co., Ltd., Calcutta) was invested as S.W., and Bro. O. G. Matthias (Smith, Stanistreet & Co., Ltd., Calcutta) was invested as secretary. Bro. J. L. Holden, representative of Genatosan, Ltd., and Thos. Morson & Son, Ltd., was among the guests present.

ALL-INDIA CHEMICAL SERVICE.—The report of the Chemical Services Committee shows the urgent importance of establishing chemical research institutes if the Government of India desire to promote industrial enterprise. The Committee had recommended the constitution of an All-India Chemical Service (*C. & D.*, 1919, p. 440) and the establishment of research institutes under provincial control in various parts of the country, together with an Imperial Institute. Following on this report the governing body of the Indian Institute of Science has decided that, in addition, a post-graduate university training is called for by the present trend of conditions in India. At the present time district chemical and industrial services have been initiated, chiefly for loaning experts in an advisory capacity, and it is obvious that unless a central body is established, in which the work of these units can be collated and sifted, much money and energy will be lost.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

P/223. Litchford	smelling-	B/213. Dr. Pierce's golden
	salts	medical discovery
B/183. Kembell's	complexion	
	WAX	

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4:

Dimol, A/223	Herring's quinine sulph, S/163
Poroplastic felt, S/183	Parker Pray "Rosaline," A/173
Savona dry-cleaner for gloves, E/183	Ferber's capsules, M/223
Winterettes, M/173	Koumiss, B/223

APPRECIATIONS.

From a firm of South African merchants:

"We are very much obliged to you for your letter. It is very kind of you to give us the corrections, and we shall certainly mention that we are indebted to you for the information. As a matter of fact, we wish to set on record that THE CHEMIST AND DRUGGIST is most valuable for information, and we sometimes do not know what we should do without it."—(74/66.)

Observations and Reflections.

By Xrayser II.

The Climb-down

of the Home Office is a triumph for the Pharmaceutical Society, to whose persistent protests it was largely, if not mainly, due. Of course the Society's hands were greatly strengthened by the protests of other bodies and the indignation of the public generally, but when all deductions are made it is the Society we have to thank for the concession of a special Committee to inquire into and report upon the question at issue. And, whatever the ultimate result, the appointment of that Committee is a victory both of principle and of tactics. The fight hitherto may appear to have been merely for position, but the position won is immensely important, being based upon an impregnable principle. Even if the result be not precisely what we have contended for, we shall have justified our demand for consideration.

The Membership of the Society,

we are officially informed, continues satisfactory, and there is no occasion for those "croakings" to which the decision in the test case gave rise. Personally I never saw any occasion for them. My opinion is that now the Society has shed—or, rather, has been relieved of—a load of cares with which it had no real concern, it has a better claim upon our support than it ever had. Its claim before was ambiguous and to a certain extent, as most of us felt, factitious. Our two sets of interests are now separated, and the guardians of each set have an equal claim upon us. I am not sure that our professional interests are not ultimately the more important. How important they are we have seen in this matter of the Dangerous Drugs Act Regulations. We could hardly have hoped to oppose those Regulations successfully on purely business grounds; it was our status under the Pharmacy Acts that helped us there, and the Society, as the administrator of the Acts, is the only body that could act effectively on our behalf. We may be sure that other occasions will arise in which it will again be so. But, apart from such special occasions, the Society represents our highest interests as no other body can. A great living writer has well said that the idealist is the true realist, that it is by our care for our ideals that we best subserve our everyday interests. To keep our flag flying is not mere sentiment but sound practical sense, and even those who have held aloof from the Society on account of its supposed futility or mischievousness from a business point of view have good reason to reconsider their position now.

The Retail Pharmacists' Union

and the election to its Council have naturally been the leading topics at recent association meetings. Some of the things reported to have been said at them are highly questionable. It is surely early days to advocate compulsion on those who are tardy in joining the Union. For myself, I hate and repudiate the idea of compulsion at any time, but, granting that it may sometimes be a political necessity, it is rather premature to urge it with passion before the Union is fairly on its feet, and I cannot think Mr. Gilleggan will serve his own purpose by doing so. As for competition with the Society, of which Mr. Mallinson spoke at Southport, I sincerely hope there will be competition, though not, of course, in any bad sense. It is one of the advantages of two associations that they at once stimulate and check each other. I fancy the danger Mr. Mallinson not obscurely hinted at of the Society so riding the high horse as to damage our business interests will be lessened by the fact that its rival, the Union, has those interests in charge, just as any laxity of the Union's with regard to our qualification might be corrected by the Society. On the other hand, each body should, and doubtless will, stimulate the other to vigilance and, when necessary, action on our behalf. I do not know whether Mr. Mallinson prefers faint praise or faint damns, but as neither are in my line that does not matter. I am glad he welcomes criticism, since he will probably get it.

The Fourteen Members

of the Provisional Committee of the R.P.U. who combine to ask for election to its successor are, of course, within their rights in doing so, but it is to be hoped they will not all be returned. What we want is emphatically new blood. I do not write this in the hope of influencing the election—it is too late for that—but to emphasise the fact that of the eighteen seats on the Council, for which there are forty candidates up and down the country, fourteen are virtually bespoke by "the old gang." It seems as if it were intended that the new Union should just be the old Local Associations Executive "writ large."

The Difference

between your Manchester correspondent and me is one of principle. I do not doubt that the window-display he advocates was as free as possible from any objectionable features; my objection is to the display itself, which is too much like the show of false teeth in the window of a third-rate dentist. As regards our professional claims, our motto should be *esse quam videri*; let our work speak for itself. That no personal tone was apparent does not meet my objection, which is to the exploitation of professional skill for business purposes, but I am pretty sure that personal applications would result. Does your correspondent think the display was meant to be merely educational? I confess that it puts a little strain on my credulity to follow him if he does. I don't understand how the display can be discounted as a weapon against unqualified competitors (which is what I meant) by being more or less common.

The Aberdeen School of Pharmacy

would seem to answer Professor Santayana's test of success. He tells in his latest book of a conversation he once had with a Harvard professor who boasted of the number of students attending his classes. "For my part," said Mr. Santayana, "it is not the number of students but their quality that I look at." The Aberdeen school is evidently satisfactory in both respects, but it is the latter that is most important. An average attendance of 90 per cent. shows sufficient keenness, and that out of a class of ninety-four students only two should fail on examination to get over 60 per cent. of marks is highly creditable.

The Letter of "M.D."

on dispensing doctors in your issue of March 12 is a notable contribution to the discussion of a most important subject. Of the desirability of the separation of dispensing from prescribing nothing remains to be said; every unprejudiced person is agreed on that point; but the character of the dispensing carried on in some surgeries is, I think, hardly sufficiently known. I judge of it mainly by what I have seen of the stock of drugs and appliances in two or three country surgeries (and one urban ditto) which I have at different times valued for medical friends who were transferring their practices. The apparatus alone—scales, measures, etc.—was eloquent of the rule-of-thumb; but what shall I say of the general stock? One fact must suffice. It happened that I was called in to value the stock of the same surgery twice within three or four years. With the exception of the run of drugs in regular demand, nothing had apparently been changed in the interim. On both occasions I found the same Winchester quarts virtually full of the same preparations, of which tinct. digitalis (!) was one, most of them showing a copious deposit. There was no pretence of arrangement, poisons of the most virulent type standing cheek by jowl with comparatively harmless preparations; the whole place was dirty and dishevelled, many of the shelves and their contents deep in dust; and for a stranger to find any particular article he wanted would have been a matter of several minutes. Yet the practice attached to the place was by no means a bad one, and my friend the practitioner had the reputation of being quite a smart man. He was certainly a very clever surgeon.

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The following, just received, epitomises the reason for the outstanding success of "The Chemist & Druggist."

*"We Wholesalers advertise in
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Any further particulars from the Publisher,
THE CHEMIST & DRUGGIST,
42 Cannon Street, London, E.C.4.

Editorial Articles.

Austrian Proprietary Medicine Law.

New regulations affecting the sale of proprietary medicines in Austria were introduced recently, superseding the former Imperial laws. The new law makes a distinction between those specialities which are manufactured wholesale, and preparations put up by the individual pharmacist. Pharmaceutical specialities are defined as remedies put up in a package intended for direct delivery to the purchaser by the pharmacist, but do not include bacteriological preparations, serums, vaccines, organo-therapeutic preparations, dietetic and

cosmetic preparations, provided that the latter do not purport to possess a curative action. The sale in Austria of a pharmaceutical speciality is forbidden unless it has been duly registered at the Department of Public Health, and every registered speciality has to bear the registered number printed on the label, and this indication—viz., "Sp. R. Nr." has to form an integral part of the text of the label. The application for registration has to be made to the Department of Public Health, and in the case of foreign specialities the application must be made on behalf of the foreign manufacturer by an Austrian pharmacist. The application must be accompanied by two original packages of the speciality to be registered, details of the exact quantitative and qualitative composition of the preparation, as well as any facts which may facilitate the analysis of the contents; if this information is imparted with the statement that it is not intended for publication, it will enjoy the protection of being considered in the light of an official secret. Further, copies of the label, of the printed matter enclosed with the preparation, a statement of the sale-price fixed by the manufacturer, and samples of the non-official ingredients employed in its preparation must also be submitted. A fee of 300 crowns has to be paid for each registration. The label must state the name of the speciality and of the manufacturer; in the case of foreign specialities, the name of the Austrian representative holding stock must also be stated. In addition, it must indicate the active ingredients by name, and if heroic drugs are contained, the amount of the latter must be stated, together with simple directions for use, the registration number, and the sale-price; also, if applicable, an indication that the preparation may only be sold on a prescription. Within three months of receiving an application the Department of Public Health has to decide whether the speciality will be registered and its sale in Austrian pharmacies permitted. If the application is refused, a reason will be given. The applicant has the right to claim a discussion before the commission appointed to deal with these cases; this commission will be composed of medical delegates appointed by the Department of Public Health, a pharmacological expert, representatives of the pharmaceutical associations, of the sick clubs, of the chemical industry, and of the chamber of commerce and industry. In the case of veterinary specialities, a veterinary official of the Department of Agriculture and Forestry will be called upon to attend. The applicant is held responsible for the composition of his preparation, and every year the composition of each registered speciality will be controlled. For this annual analysis the applicant will have to pay a fee of 150 crowns, and should the preparation require a special pharmacological examination, an additional fee of 150 crowns will be charged. Official preparations may not be placed on the market under another designation as specialities, and in the event of a speciality being included in the Pharmacopoeia, this step will not prejudice the owner's acquired rights. It is forbidden to advertise a speciality as a remedy for any specific disease; however, it is permitted to state that "it is used in the treatment of . . ." and this statement must be approved by the Department of Public Health. All inland and foreign specialities, the sale of which has already been permitted in Austria under the old laws, do not require a renewal of the permission for their sale; however, application for their registration must be made before December 31, 1921. All the new regulations as to labelling and advertising, etc., apply

immediately; nevertheless, a period of one year from the date of registration is allowed, in the case of these specialities, in which to conform with the new regulations as to labelling. An interesting exception is made in favour of single pharmacies with an extensive foreign clientele; these may be permitted to sell foreign specialities which do not comply with the provisions of this law, on making application to this effect to the Department of Public Health. Before cancelling the registration of a speciality for infringing the provisions of the law, the owner must be warned. Pharmacists who prepare their own "house specialities" for sale only in their own business, and which may not be publicly advertised or sent by post, need not apply for registration of these preparations; they are merely required to report the fact to the political authorities. The label, however, must comply with the new regulations. The control of such "house specialities" will take place at the periodical inspection of the pharmacy, and only if a special analysis is found to be required will the pharmacist be called upon to pay the fee of 150 crowns. The new Austrian law on proprietary medicines offers many points of interest, especially with regard to its liberal treatment of the pharmacist's own private specialities, and in this respect it is unique among all the recent legislation on this subject introduced in other countries, and contemplated in Great Britain. It does not insist upon the full publication of the formula, but requires a statement of its active ingredients, as in Spain, indicating the amount only in the case of heroic drugs, as in Belgium. On the other hand, the very briefly worded provision as to claims regarding the use of a speciality are in substance quite as drastic as the proposed British strictures on the advertising of proprietary remedies. In one direction the Austrian law marks an unusual innovation: paragraph 4 (c) requires that Austrian specialities intended for export shall be labelled in accordance with the regulations in force in the country to which the preparation is to be exported, and this label, etc., must also be submitted on applying for registration.

Still Dangerous.

THE Home Office Committee, the appointment of which was announced in our last issue, has commenced its deliberations. The plan, so far as we can gather, is to summon representatives of each group of objectors before the Committee and get them to lay all their cards on the table. We must for the present assume that the Committee will give proper consideration to the different points of view and be able accurately to appreciate their relative importance. Having settled a policy, it will then be necessary to entrust the duty of drafting the Regulations to competent persons. These should consist of persons accustomed to deal with technical matters, and not to the Civil servants, whose incapacity in this matter has astonished even a public accustomed to bureaucratic claims. The Committee has been sitting this week and had before it the medical, dental, and veterinary representatives. Dr. Alfred Cox presented the medical case on Tuesday morning. Then the agriculturists were to be heard, and finally the most important group of all—the pharmacists. The last-mentioned group includes representatives of the Pharmaceutical Society of Great Britain, the Pharmaceutical Society of Ireland, the Scottish Pharmaceutical Federation, the Dublin and Ulster Retail Drug Associations, the Chemists' and Druggists' Society of Ireland, the Retail Pharmacists' Union, and delegates from the

co-operative stores and drug companies. Their case was presented by Mr. J. Rutherford Hill, and the Scottish Pharmaceutical Federation, represented before the Committee by Messrs. Jack, Coates, McNab and Murray, expressed themselves satisfied with his statement. The veterinary and agricultural interests claimed freedom to obtain and supply any of the drugs covered by the Dangerous Drugs Act which are required in the treatment of animals, and the curious suggestion was put forward that tinct. opii might be sold "denaturised." How this is to be done is not known for certain, but we are told that the proposers have in view the addition to laudanum of some such substance as paraffin oil. If this is the case it is time for the intervention of the Society for the Prevention of Cruelty to Animals. The Irish case was to be taken on Wednesday morning. The Home Office required that a *précis* of the evidence to be tendered should be sent before the Committee-meeting. As stated above, the case for pharmacy was entrusted to Mr. J. Rutherford Hill. The choice of Mr. Hill is a good one, as he probably knows more about pharmacy legislation in this country than any other person, and his presentation of the case was a masterly one. The co-operative element may claim that their case is not fully covered by the official presentation, and there is some suggestion that company pharmacy may appoint a witness to give evidence before the Committee. At the end of last week a meeting of the bodies to be represented by the pharmaceutical delegates was held in London. Mr. J. E. Connor, President of the Pharmaceutical Society of Ireland, Mr. W. McNab, vice-chairman of the Scottish Pharmaceutical Federation, and Mr. J. Rutherford Hill were in London, and were doubtless among those present at the meeting. The Home Office is not over-pleased at having been forced to appoint the Committee, and the terms of reference, "to consider outstanding objections . . . and to advise what modifications can safely and properly be made," indicate an unwillingness on the part of the officials which may still result in unsatisfactory Regulations being made. It must be remembered that there is only one representative of pharmacy—Mr. Woolcock—on the Committee, which, considering that pharmacy is the most important of the interests involved, is clearly insufficient. There is, however, some consolation in the fact that the House of Commons has been thoroughly aroused to the trickery of the Home Office, and that a continuance of the same tactics by Government officials will almost certainly lead to the rejection of unsatisfactory regulations. Judging by the various suggestions put forward, the hospital representatives, whose case was to come on on Wednesday afternoon, are by no means agreed as to the rules that should be enforced in hospitals. Our own view is that a hospital which has a qualified pharmacist on its staff should be treated no less generously than the dispensing doctor. The qualification of the pharmacist should be sufficient guarantee that the drugs bought for hospital use will be properly employed. The case of hospitals which have only apothecaries' assistants in charge of the dispensary is a difficulty which has to be faced. It appears that the apothecaries' assistants are quietly endeavouring to persuade the Home Office that they are qualified to deal in the groups of poisons covered by the Dangerous Drugs Act. The medical members of the Committee, who, like the Home Office, are not probably acquainted with the relative importance of the pharmaceutical qualifications and the qualification of "assistant to an apothecary," may give way to clamour unless Mr. Woolcock is able to convince his fellow-members that

there is no comparison between the standard of knowledge required of those who pass the examinations of the Pharmaceutical Societies and the Assistants' examination of the Society of Apothecaries. We are glad to hear that, as a result of the publicity given by Sir Malcolm Delevingne to the suggested regulations for hospitals, the "locked box" idea has been laughed out of court. "Xrayser II's" caustic remarks last week must, we think, have contributed to this end. It is to be hoped that the lesson to be learned from this will not be lost on those people who prefer the patronage of Civil servants to the good will of their fellow-men.

The British Chemical Trade Association.

DYESTUFFS (IMPORT REGULATION) ACT, 1920.

WITH reference to the memorandum recently forwarded to the Dyestuffs Advisory Licensing Committee, which was compiled and limited to complaints made to the Association, members are asked to inform the secretary so soon as possible if the statements made in the memorandum correspond with their actual experiences, and if, in their opinion, the memorandum fairly stated the merchants' point of view. The matter will be discussed at a meeting of the Dyestuffs Sub-Committee, and members will oblige by forwarding their views.

GERMAN REPARATIONS ACT.

The legislation now passing through Parliament will no doubt considerably affect members, and they will probably find difficulties in dealing with this matter. The Association will be pleased to take up on their behalf any queries regarding importations from Germany which may be liable to the 50 per cent. tax. The Act will not become operative until April 1, and therefore goods landed on or before March 31 will not be liable to the tax. In cases of contracts entered into before March 8, the goods shipped under such contracts will be allowed to be imported free of the tax up to April 15; the liability of any such goods landed in the United Kingdom after that date will be a matter for the consideration of a Trade Committee. Goods shipped direct from Germany to any country where a similar Act has not been put into force, for which payment has been arranged in London, will not come under the Act. Goods landed for re-exportation are not liable to the tax.

PROPOSED "KEY INDUSTRIES" BILL.

At the Association's deputation which was received by the Board of Trade on March 10, the merchants' views were submitted, and at the conclusion of the conference Mr. P. W. L. Ashley, C.B., promised to put them before Sir Robert Horne, M.P., and Sir Philip Lloyd-Graeme, M.P. The deputation was advised that it was impossible for the Board of Trade to give any information as to the manner in which these restrictions would be carried out, or the products which would be dealt with under the proposed legislation. It is probable that the Government intend to introduce legislation giving power to levy a fairly heavy duty on goods imported into this country with which home manufacturers are unable to compete on account of low foreign rates of exchange. Taking this into consideration, it is hardly likely that the chemical products that will come under the "Key Industries" Bill will escape a somewhat similar duty, and the proposed restrictions on products under the heading of "Key Industries" will be dealt with by an *ad valorem* duty. Whether the Government, in addition to such a duty, will also impose prohibition except under licence similar to the Dyestuffs (Import Regulation) Act, 1920, is uncertain. At the moment it is the Government's intention to introduce this Bill directly after Easter.

Pharmaceutical Society of Great Britain.

North British Branch.

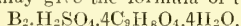
THE fifth evening meeting of the session was held at 36 York Place, Edinburgh, on March 16, Mr. James Jack, Ph.C., F.L.S., J.P., in the chair.

THE CHAIRMAN made sympathetic reference to the deaths of Mr. Duncan Napier, chemist and druggist, and Mr. A. I. McCallum, chemist and druggist and veterinary surgeon. The following communications were read:

LABORATORY NOTES ON (a) Quinine acetosalicylsulphate. (b) Narcophine. (c) Morphine methylchloride.

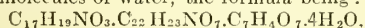
By D. B. DOTT, Ph.C., F.I.C., F.R.S.E.

Quinine Acetosalicylsulphate.—The solubility of quinine sulphate in water at ordinary temperature is about 1 part in 800, and that of acetylsalicylic acid as 1 in 400 of water. On adding the two compounds to water it is obvious that the mixture is much more soluble than either of the constituents. By adding the acid in increased molecular proportions the best result was obtained by four molecules of acetylsalicylic acid to one of quinine sulphate. That a definite compound is formed is evident from the behaviour of solutions on evaporating, no appearance of separate constituents being visible. Taking B as representing $C_{20}H_{24}N_2O_2$, we may give the formula of the salt as:



It is quite usual to give the formula of a salt with the maximum water of hydration. In this case it seems to be nine molecules, but it readily effloresces to the proportion of four molecules, so that the formula given is probably the more convenient expression. The salt is soluble in water to the extent of 1 part in 50. After drying in a desiccator for some hours the salt melts at 96° , much below the melting-point of either of its constituents.

Narcophine.—This name has been given to morphine-narcotine meconate. As it readily forms a tri-sodium compound, meconic acid was for long regarded as a tri-basic acid. Investigation, however, proved that it contains only two carboxyl groups, and that an additional hydroxyl enables it to form tri-compounds with the stronger bases. With alkaloids it forms only dibasic and monobasic salts. Although meconic acid in boiling water evolves CO_2 and becomes slowly converted to comenic acid, it may be dried in the water-bath to constant weight, losing only its water of hydration. When fully hydrated this amounts to three molecules, but it usually only contains two. Narcophine is readily soluble in about five parts of water, but not completely so, and the solution is not improved by adding more water, but the contrary. This arises from the fact that organic salts of narcotine are liable to be decomposed by water, in which respect it resembles caffeine, the latter being likewise a weak base. Narcophine is stated to contain four molecules of water, the formula being:



and it can easily be prepared in this composition. The salt can take up additional water, so as to indicate six molecules of water. One would not expect to get a sharply defined melting-point with a salt of such a composition, but its behaviour on heating is interesting. At 140° there is evident evolution of gas, but it does not distinctly melt till 168° , with further decomposition. This is under the melting-point of narcotine (176°), and much under that of morphine (about 247° , with decomposition).

Morphine Methylchloride.—The name as now usually written rather suggests a salt from which morphine can easily be recovered by appropriate means of precipitation. But morphine cannot be obtained from it, and its physiological action differs profoundly from morphine and from the alkyl substitution derivatives thereof. Many years ago Crum Brown described this class of compounds as if they were analogues of ammonium—not of ammonia. On adding sodium hydroxide to methylmorphium chloride, you obtain methylmorphium hydroxide, but no morphine. That older nomenclature has the distinct advantage that it at once suggests a compound differing essentially from the ordinary alkaloidal salt or alkyl substitution derivative. Morphine methylchloride crystallises from water in well-defined prisms, having the composition $B \cdot MeCl \cdot 2H_2O$. One molecule of water is lost under 160° , the other at 135° – 140° . The salt dissolves in 10 parts of water at ordinary temperature, and in 160 of 90-per-cent. alcohol W/V. In its reactions with ferric chloride, nitric acid, and iodic acid, methylmorphium chloride resembles a

morphine salt. It differs from a morphine salt in that its solution gives no precipitate with sodium carbonate or ammonia, while its acidified solution gives a bulky crystalline precipitate with potassium ferrocyanide, morphine salts yielding no precipitate. After drying in a water-bath the salt melts, with extensive decomposition, at 285° . For higher melting-points sulphuric acid and hard paraffin are usually recommended, but at temperatures approaching 300° they are objectionable because of the fumes, in which cases phosphoric acid answers admirably.

DISCUSSION.

Mr. HILL said he understood the first note was really the result of observing that acetylsalicylic acid and sulphate of quinine in presence of water readily gave a clear solution. Acetylsalicylic acid and quinine were a comparatively frequent combination in prescriptions, and Mr. Dott indicated how a convenient combination could be obtained at a relatively economic cost.

Mr. JOHN GILMOUR remarked that he had noticed a statement that acetylsalicylic acid and quinine, together were apt to give rise to the formation of a poisonous compound, which he thought was called "quinotoxine."

Mr. STEPHENSON pointed out that this statement, which appeared recently in an American publication, had been shown to be without foundation.

Mr. DOTT, in reply, said he had been surprised to notice that even Cohen made no mention of the additive alkaloidal compounds such as morphine methylchloride.

The next communication was

MEDICINAL PLANT CULTIVATION AT INVERNESS.

By DONALD MITCHELL.

The author's grandfather, who was the son of the gardener to the Duke of Richmond and Gordon, began business in Inverness as a chemist and druggist in 1808. Soon after he added the cultivation of medicinal plants as a side-line.

In addition to various medicinal plants for his own business purposes, he cultivated peppermint somewhat extensively, oil of peppermint being obtained and sold to certain London wholesale druggists. The process of distillation was a slight modification of that employed in distilling Highland malt whisky, and known as *distillation per decensum*. Malt whisky is distilled by the apparatus known as the pot still. The community realised the commencement of the distilling season by observing old women returning from the gardens carrying pitchers of peppermint water from which the volatile oil had been decanted and which was used extensively as a stomachic. The collection of bearberry leaves (*Artostaphylos Uva-ursi*) was also carried on from Inverness. An experienced lady worker was sent to Fochabers, where she enlisted the services of herd boys and girls, who collected the leaves in the Fochabers woods. The leaves were dried, packed in sacks, and forwarded to Butler & McCulloch, herbalists, Covent Garden, London. The price obtained ranged from 5*l.* to 6*l.* per cwt. During the off season taraxacum root was collected, from which was prepared extract of taraxacum. This was forwarded to Mr. Dun, Pentonville Hill, Islington, London. The mixture was used by Mr. Dun in the manufacture of "Dun's Dandelion Coffee," at one time well known in the market. The growing demand for buchu leaves, as superior to bearberry leaves, and the fact that bearberry leaves from Belgium could be purchased on the market for 30*s.* per cwt., led to the business being given up. Following the appearance in the market of steam-distilled oil of peppermint, about 1860, this local industry practically disappeared.

DISCUSSION.

The CHAIRMAN said he was particularly interested in the reference to the preparation of peppermint oil. In connection with the Abbey at Arbroath they frequently came across medicinal or culinary herbs, which were traced back to the time of the monks, who cultivated many plants in the Abbey gardens.

The next communication was

A PRELIMINARY NOTE ON A PHOTOSENSITIVE BISMUTH MIXTURE.

By E. G. BRYANT, Ph.C.

A mixture of the following composition was found to exhibit marked photosensitiveness:

Pot. brom.	gr. 15	Ol. menth. pip.	mj.
Liq. bism. etam. cit.	5 <i>l.</i>	Aq. chlorof.	ad 5 <i>ss.</i>
Sod. bicarb.	gr. 15		

A well-marked black mirror was deposited on the side of the container when exposed to even moderate sunlight. On placing the mixture in a dark place the whiteness of the

precipitate was restored. These facts were the subject of a complaint on the part of the patient, and have been carefully verified. Control mixtures were prepared, first omitting the sodium bicarbonate, and secondly, omitting the oil of peppermint. In the first place the effect of light was scarcely observable, and in the second the photosensitive effect was much delayed, though when once started it proceeded to the same extent as in the prescribed mixture. In the presence of the alkali, probably a compound of bismuth is formed with the esters or alcohols of the oil of peppermint, and this compound is photosensitive. Further experiments are being made to determine the conditions under which this change can be avoided. Each of the ingredients has been carefully examined so as to detect any impurity.

DISCUSSION.

Mr. HILL said Mr. Bryant indicated in his letter that this was purely a preliminary note on a subject which he proposed to follow up and report upon more fully at a later date. Meantime, no doubt, it would be helpful if anyone could make suggestions as to a probable explanation which would assist in completing the investigation.

The next communication was :

A PLEA FOR UNIFORMITY IN DISPENSING.

By A. B. GILMOUR.

Mr. GILMOUR, in his introductory remarks, indicated the importance of prescribers making their intentions clear, and submitted for consideration a few notes on prescriptions dealt with in the ordinary business routine. The first prescription was :

Pil. quinin. sulph., gr. iij. Mitte xxiv.

This prescription was interpreted as three grains of the B.P. pill mass, which contains 82 per cent. of quinine sulphate, and apparently the chemist supplied pills each containing three grains of sulphate of quinine. Further inquiry disclosed that the practitioner was not clear as to what he actually intended the chemist to dispense, and the chemist's objection to the interpretation was raised on financial grounds. With regard to A.B.C. liniment, chemists frequently note on the prescription that for lin. A.B.C. they have dispensed the B.P.C. preparation, while others dispense the Royal Infirmary Edinburgh Pharmacopœia preparation. The Codex preparation contains no oil, while the Infirmary liniment is composed of equal parts of aconite, belladonna, and chloroform liniments. The three syrups show a similar discrepancy, with the B.P.C. requiring equal parts and the Edinburgh Royal Infirmary recipe one part of syr. Easton and hypo. co. and two parts of syr. ferri. phos. co. Among the other preparations were the following:

Lotio Calaminæ, for which there were three recipes current—namely, the B.P.C. formula, Edinburgh Royal Hospital for Sick Children, and the Aberdeen Royal Infirmary formulas.

Lotio Plumbi cum Opio, for which there were the B.P.C. recipe, the Edinburgh Royal Infirmary, Edinburgh Royal Hospital for Sick Children, and the Aberdeen Royal Infirmary formulas. Chemists have in addition copied on the form the recipe dispensed.

Lotio Rubra is dispensed according to the B.P.C., Edinburgh Royal Infirmary, Edinburgh Sick Children's Hospital, and Aberdeen Royal Infirmary Pharmacopœias.

Mistura Alba is dispensed according to the B.P.C., Martindale, Squire, and the Edinburgh and Aberdeen Royal Infirmarys' Pharmacopœias. For

Mist. Ammoniacæ cum Senegæ there is the B.P.C. recipe and the Edinburgh Royal Infirmary, while a chemist compounded the medicine from his own formula.

Mist. Bismuth and Soda is given according to the B.P.C. or the Edinburgh Royal Infirmary formula.

Mist. Rhei cum Soda is in the B.P.C., but three chemists dispensed from a recipe of their own.

Mist. Rhei appears in the Edinburgh Royal Infirmary Pharmacopœia, and a chemist here again evolved his own formula.

Three prescriptions were submitted for unguentum atropinæ:

(1)	(2)	(3)
Ung. atropinæ ... ʒi.	Ung. atropinæ ... ʒss.	Ung. atropinæ ... ʒi.
Directions. The ointment.	No directions were given.	Directions. Ointment for eye.
	A chemist supplied:	Use three times a day.
	Hyd. ox. rub., gr. 2;	
	atropine, gr. ʒ; adens,	
	ʒij.; paraf. mollæ, ʒij.	

With regard to the first prescription, one would assume that the British Pharmacopœia ointment was intended. For Number 2 it is wrong in principle to use the B.P. designation for an ointment the ingredients of which differ from the official preparation. While Number 3 is written exactly as Numbers 1 and 2, the directions indicate that an eye ointment was intended, and the question, therefore, arose as to whether or not the chemist dispensed the B.P. ointment or the oculentum atropinæ of the B.P.C. In reply to an inquiry, the chemist stated that he dispensed the B.P. ointment. This raises an interesting question. On the one hand, Martindale gives the strength of the atropine ointment of the Royal London Ophthalmic Hospital as ½, 1, or 2 per cent., while the British Pharmaceutical Codex states with regard to the B.P. atropine ointment that it is not used for ophthalmic purposes. The same difficulty arises with regard to boric ointment and cocaine ointment. What should be dispensed for mist. gent. co.? Chemists have dispensed mist. gentian., B.P., 1867, mist. gentian. et sodæ, B.P.C. (this B.P.C. recipe is the same as the St. Thomas's Hospital recipe), and mist. gentian. et sodæ comp., B.P.C. The foregoing examples, in view of their frequent recurrence, clearly indicate the desirability of uniformity, and the speaker suggested that, where the practitioner does not specifically state a reference, the official preparation, and next in order the official preparation of the B.P.C., should be dispensed. The principle of the recognition of the B.P.C. as a standard has already been admitted in the National Drug Tariff. Cod-liver oil emulsion, cod-liver oil emulsion with hypophosphites, and extract of malt and cod-liver oil are typical examples. The necessity for adhering to an official standard is exemplified by a case where an insured person lodged a complaint with the Food and Drugs Inspector regarding a jar of extract of malt and cod-liver oil. The public analyst certified that it contained only 2.8 per cent. of cod-liver oil, although the British Pharmaceutical Codex standard is 15 per cent.

Oleum Gaultheriæ.—The Drug Accounts Committee interpret ol. gaultheriæ as the natural oil of wintergreen of the B.P. The procedure adopted is to postpone the prescription in order that the chemist may state whether he dispensed the natural or the artificial oil. The simplest and most practical method of eliminating this difficulty is to regard ol. gaultheriæ and methyl salicylate as being synonymous, and let the practitioners who desire to have the natural oil dispensed order it accordingly. A particular chemist, in reply to an inquiry, returned seven postponed prescriptions, representing a quantity of 12 oz., with the word "Natural" inserted on each of the seven forms. As a result of further inquiry and evidence given on oath it was proved that the artificial oil had been dispensed, and the Insurance Committee ordered repayment of the difference in value, and inflicted a penalty of 5l. 5s.

Doses.—Where an unusually large dose appears to be prescribed the pharmacist or dispenser should satisfy himself that the prescriber's intention has been correctly interpreted. That there are good reasons for requiring the dispenser to bear this in mind is illustrated by the following examples of unintentional doses: Fowler's Solution, ʒij. in ʒviij. mixture. Dose, a dessertspoonful: ʒij. dispensed. Tinct. hyoscyami, ʒvj. in ʒviij. mixture: ʒvj. dispensed. Tinct. digitalis, ʒiv. After inquiry, ʒiv. dispensed. An ʒviij. mixture, with sp. chlorof. ad ʒviij.: aqua chloroform was dispensed. Quin. sulph. ʒxxx. in ʒvj. mixture. Dose, a tablespoonful; gr. 30 was dispensed.

Caffeine...	...	2 gr.	Ac. acetylsal.	...	ʒvj.
Phenacetin	...	ʒvj.			Tales ij.

In this case 6 grains each of phenacetin and ac. acetylsal. were dispensed in each powder.

Dosage of Iodide of Potassium.—With regard to the dosage of iodide of potassium the following prescriptions were submitted:

Liq. hyd. perchlor.	...	ʒi. ʒij.	Hydrarg. perchlor.	...	ʒi.
Potass. iodid.	...	ʒvj.	Potass. iodid.	...	ʒviij.
Dec. scopar. ad	...	ʒviij.	Inf. seneg. ad	...	ʒviij.
Sig.: ʒss. after food.			Sig.: ʒss. thrice daily.		

These two prescriptions were for the same person. The second prescription was issued a fortnight after the first. With regard to the 1 oz. of perchloride of mercury, in the second prescription it was assumed that liq. hydrarg-perchlor. was intended. The dose of iodide of potassium in the first prescription is 180 gr. after food, and in the second the dose is 210 gr. three times a day. The same practitioner also ordered a course of treatment for a patient, in which the dose of iodide of potassium was as follows: First mixture, 60 gr. of iodide of potassium to be taken after food; second, 75 gr.; third, 105 gr.; fourth, 120 gr.; fifth, 135 gr.; sixth, 150 gr.; seventh, 180 gr.; eighth, 210 gr.; ninth, 240 gr.; tenth, 255 gr. So that for the

tenth mixture the practitioner had actually prescribed as much as 765 gr. per day. This case seemed to be unique. On the margin of the prescriptions the chemist noted that when 6 to 7 oz. were prescribed he restricted the quantity to 5 oz., that when 8 oz. were prescribed he restricted the quantity to 5½ oz., that when 8½ oz. were prescribed the quantity was restricted to 5½ oz. This practitioner had also on one occasion issued a prescription for ½ lb. of iodide of potassium. It was clearly the duty of the chemist either to dispense the prescription as written, or have the alteration of the quantity vouched for by the practitioner adding his initials. If the competent authorities would give a definite pronouncement with regard to the points raised it would remove much of the perplexity which exists at present.

DISCUSSION.

Mr. GLASS, in agreeing with the author's suggestions, said that Mr. Gilmour had a difficult post to fill in carrying on the work of the Central Checking Bureau.

Mr. YULE said the communication indicated the necessity for something being done for the purpose of securing uniformity.

Mr. STEPHENSON sympathised with Mr. Gilmour's difficulties. On the question of standardisation he thought there was a disposition to go too far. Everything was fixed by a certain standard, so that there was no scope for the individuality of the pharmacist in producing a preparation of a much better than average quality. He thought the effect of National Health Insurance dispensing was to aggravate this fixing of standards so as to destroy freedom of action and individuality. With regard to the high dosage of potassium iodide, if this was prescribed in actinomycosis it would be just what one might expect. It was quite a common thing to give a dose of 240 grains in such cases, but they were comparatively rare.

Mr. JOHN GILMOUR thought the communication was a plea for better information and greater uniformity in the prescribing of medicines.

Miss BOAG pointed out that recently she had come across a case where a practitioner prescribed castor-oil emulsion, and was in the habit of sending his patient to one particular shop where a special preparation was made, quite different from the castor-oil mixture of the Pharmacopoeia.

Mr. HILL said the paper indicated only one of the numerous phases of the interesting work carried out by the Central Checking Bureau. It was a little surprising to discover the extent to which discrepancies in the interpretation of prescriptions, with corresponding variations in the composition and character of the medicines supplied, seemed probably to have been going on for years in private practice without anybody being aware of what was actually happening. The British Pharmacopoeia was published at such long intervals that there seemed a necessity for setting up what might be called a Standing Formulary Committee, having authority to frame and issue medicament forms of new substances or preparations coming into use in the practice of medicine. He strongly recommended every pharmacist who had the opportunity to pay a visit to the Central Checking Bureau.

The CHAIRMAN mentioned that he had considerable experience of the use of potassium iodide in the treatment of bullocks suffering from actinomycosis, and he thought there was considerable waste of material in the prescribing of the large quantities indicated by Mr. Gilmour. Six powders, each containing 3 drachms of potassium iodide, were usually found quite sufficient treatment to put a diseased bullock into such condition that it could be placed on the market for sale.

On the motion of the chairman, a vote of thanks was awarded to the authors of papers.

DANGEROUS DRUGS RESOLUTION.

The CHAIRMAN said they would have observed that an important further stage had been reached with regard to the question of the Dangerous Drugs Act Draft Regulations. He felt they might usefully take advantage of this meeting of the Society to make a pronouncement on the present situation, and he therefore called upon the resident secretary to deal with the matter.

The RESIDENT SECRETARY explained the present position, and said that it had been thought expedient to make a

pronouncement on the situation, and he submitted a resolution to the meeting (see p. 69), which was carried unanimously. Attention was directed to books added to the Library and specimens added to the Museum, and a vote of thanks was awarded to the donors of books and specimens.

Mr. THOMAS STEPHENSON, chairman of the Board of Examiners, moved a vote of thanks to the chairman for the time and trouble he had taken in regularly attending the monthly meetings, and for the able and capable way in which he had discharged the duties of chairman during the session of which this was the closing meeting.

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Wednesday, March 30.

Cardiff Pharmacists' Association, Bungalow Café. Whist-drive. Tickets (3s. 6d. each) from Messrs. D. Brims, J. Murray, S. B. Enson, E. G. Howell, S. H. Willis, and Mr. Edwin Poole, 29 Ladysmith Road.

Liverpool Chemists' Association, Adelphi Hotel, at 7 P.M. Annual smoking concert. Proceeds in aid of the Benevolent Fund of the Pharmaceutical Society. Tickets (2s. 6d. each) from members of the Council or from the Secretary.

Manchester Pharmacists' Masonic Association, Victoria Hotel, at 5.45 P.M. Ladies' night. Dinner, whist-drive, and dance. Tickets (10s. 6d. each) from the Hon. Secretary, Bro. A. Newton, 20 Salisbury Drive, Prestwich, Manchester.

National Association of Women Pharmacists (Edinburgh Group), 36 York Place, Edinburgh, at 7 P.M. Mr. T. L. Sinclair on "Do We Get the Most Out of Our Profession?"

DEVON PHARMACEUTICAL AND EXETER PHARMACISTS' ASSOCIATION.—The annual dinner will be held at the Rougemont Hotel, Exeter, on April 6, at 7 P.M. Tickets (8s. 6d. each) from the Secretaries, Mr. F. Southerden, 100 Fore Street, Exeter, and Mr. A. C. Milton, 265 High Street, Exeter.

IPSWICH AND SUFFOLK CHEMISTS' ASSOCIATION.—The inaugural dinner will be held at the Grand Hotel, Ipswich, on April 6, at 7 P.M. Morning dress. Tickets (10s. 6d. each) from the Secretary, Mr. J. A. Symonds, 16 Upper Brook Street, Ipswich. Afternoon meeting for employer pharmacists at 4 P.M. Address by Mr. Mallinson.

NATIONAL ASSOCIATION OF WOMEN PHARMACISTS (LONDON GROUP).—The annual meeting will be held on April 21, at Dr. Williams' Library, Gordon Square, W.C.1, at 8 P.M. Business: Election of Committee. Nominations for same, with consent of nominee, to be sent to Miss E. K. Fordyce, Westminster Infirmary, Fulham Road, S.W., before April 2.

JAPANESE CONTROL OF OPIUM ALKALOIDS.—In view of the operation of the law for the control of the export and import of morphine, cocaine, and other opium alkaloids on and after January 1, 1921, the Japanese Home Office have issued a notification to all the prefectural authorities regarding the control of the export of proprietary medicines containing narcotics. All patent medicines containing a certain percentage of diacetyl morphine, ethyl morphine, codeine, and their alkaloids come under the control of the regulations.

CENTRAL LABORATORY IN SWEDEN.—The proposed concentration of the manufacture of pharmaceutical preparations in a central laboratory in Sweden has not yet been settled (*C. & D.*, II., 1920, p. 1621). The latest representations made by the Board of Medical Directors, which suggested that the so-called "preparations" should only be made in the projected central laboratory, have not met with the approval of the Government, which does not propose to place any scheme before Parliament, as the Board have been unable precisely to define the meaning of the term "preparations." It is considered that the question is not definitely shelved by this decision, but the Wine and Spirit Central Co. is released from its offer to the State in respect to the contemplated utilisation of the installations in the Sodertälje for the purpose of the laboratory. It is unknown what arrangements the company will now make for the use of these installations. Meantime, pharmacists may adopt measures of their own to get the question of a central laboratory solved.

Associations' Winter Session.

Hampshire.—The Hampshire Pharmacists' Association held a meeting at Southampton on March 16. Letters were received from the Southampton and Bournemouth branches of the Retail Pharmacists' Union agreeing to the absorption of county members living in areas contiguous to these two boroughs. It was decided to form a county branch of the Union, to include members in the northern part of the county. The President reported that in connection with the election of the Executive Committee R.P.U., on behalf of the Association he had nominated the secretary (Mr. H. J. Martin). The meeting pledged itself to endeavour to secure his return.

Lancashire (N.E.).—A meeting of the North-East Lancashire Chemists' Association was held on March 16, Mr. Ralph Pickup (Vice-President) in the chair. It was decided to supply the necessary twenty-five names of local chemists as "founders" of the district branch of the Retail Pharmacists' Union. Miss Buchanan, member of the Pharmaceutical Council, wrote appealing for lady members and the wives of pharmacists to assist in ensuring the success of a stall at the Chemists' Exhibition by contributing suitable articles. Mr. F. Lord (secretary) agreed to circularise local chemists.

Salford.—The monthly meeting of the Salford Pharmaceutical Association was held on March 10, when Mr. J. H. Franklin, Ph.C., gave an instructive address, accompanied by drawings of apparatus used in the manufacturing chemists' laboratory. He dealt with a large number of processes—grinding, sifting, pill-making, and pill-coating. Tablet-making, he said, had developed more than any other branch of pharmacy in the past twenty years, and the various machines were explained. Ointments are also made in large quantities, and milling was resorted to; boric ointment cannot be made without milling. The patent Mulser, which is also a useful machine, was explained. Then percolation and repercolation were described. The shape of the percolator and method of packing were important to ensure success.

Sheffield.—A meeting of the Sheffield Pharmaceutical and Chemical Society was held recently, Mr. E. Preston presiding, at which Mr. J. Gilbert Jackson addressed the meeting on *Current Topics*. His intention was to deal fully with the Retail Pharmacists' Union, but as matters in its formation had travelled so quickly he only proposed to create a general discussion. He had been nominated as a candidate for the North-Eastern area along with seven other chemists, for the three seats. He mentioned also that the President of the Pharmaceutical Society had been nominated for the Metropolitan area, and doubted if this was a wise course, considering his position as head of the Society, when every effort will need to be made to retain the proprietors and non-proprietors within the Society through the local associations for the general good and protection of all qualified chemists. A general discussion took place on the Dangerous Drugs Act Regulations. Mr. Jackson informed the meeting that the Insurance remuneration, while not finally settled, showed signs of being satisfactory. The President asked members to return the R.P.U. voting-papers in favour of Mr. Jackson before March 24. The meeting unanimously decided to ask Mr. Antcliffe to stand again for the Pharmaceutical Council. It was also decided to try to make arrangements whereby chemists in small adjoining towns could be invited to come to Sheffield meetings on special occasions.

Southampton.—The annual meeting of the Southampton Pharmacists' Association was held on March 16, Mr. H. Jewell in the chair. The annual report was given by the Vice-President (Mr. W. A. Clark) and the balance sheet by the treasurer (Mr. W. T. Fisk). The meeting considered the future of the Association, and Mr. H. Jewell spoke in favour of continuing. He briefly sketched the past history of the Pharmaceutical Society, pointing out how other organisations had had to be formed to protect the chemists' business interests. Much of the work of the Association was, therefore, now being done

by the local branch of the Retail Pharmacists' Union, and some members might consider that the need for the Association no longer existed. He urged the members to continue, stating that in the past too much attention had been paid to the professional side and not enough to the commercial side of pharmacy. "Do not let us go to the other extreme," he added. Intercourse between employers and employed was essential, and whereas visits might be exchanged, neither visitors nor visited would feel so much at ease as, speaking metaphorically, meeting each other on the old ship, the common meeting-place for those engaged in local pharmacy. Messrs. Ferryman, Gay, and Dowty spoke in favour. Mr. Wride announced his intention of putting the other side, but his speech was more favourable than against. A resolution to continue the Association was unanimously carried. Officers elected for 1921 were: *President*, Mr. W. A. Clark; *Vice-President*, Mr. Atkinson; *Treasurer*, Mr. H. J. Gay; *Secretary*, Mr. J. M. Dowty. The name of the Association was altered to the Southampton Pharmaceutical Association. During tea votes of thanks were passed to the retiring officers, Messrs. Jewell, Fisk, and Wride. The members of the R.P.U. who were present pledged themselves to support the candidature of Mr. H. J. Martin at the election of the Executive Committee of the R.P.U.

West Ham.—The annual meeting of the West Ham Association of Pharmacists was held at Earllham Hall, Forest Gate, on March 17. Letters were read from the parliamentary representatives promising to give their careful consideration to the Dangerous Drugs Act Regulations, and to press for the interested parties being consulted before the redrafting. The officers for the year were then elected as follows: *President*, Mr. S. Clifford Jones. *Vice-President*, Mr. C. Andrews Pratt. *Secretary and Treasurer*, Mr. C. A. Jones. *Committee*: Messrs. Maxey, Reed, Kirkpatrick, Soper, Gwinn, Lloyd, and Johnson. The outgoing President (Mr. E. N. Lloyd), in responding to a vote of thanks, said that it had been a pleasure to him to preside over one of the most progressive Associations in the country.

Wolverhampton.—A meeting of the Wolverhampton Chemists' Association was held on March 15, the President (Mr. J. H. Coleman) in the chair. Letters from the borough members of Parliament (Sir Alfred Bird and Mr. George Thorne), relating to the Dangerous Drugs Act Regulations and the House of Commons meeting, were read (*C. & D.*, March 19, p. 53). It was resolved to thank these gentlemen for attending the meeting, and for their interest and help. A series of four short papers on *Outdoor Recreations for Pharmacists* provided an interesting change from technical matters. Mr. C. H. Trotter spoke on "Golf," and Mr. W. R. Dunn on "The Joys of Motor-ing." The sports of "Angling and Shooting," and "Swimming" were discoursed on by Messrs. Marlow and C. M. Warner respectively.

South-Western Federation.

A MEETING of the South-Western Federation of Pharmaceutical Associations was held on March 16 at Swindon, Mr. H. E. Matthews (President) in the chair. Delegates representing Bristol, East Devon, North Devon, and Somerset and Wiltshire Associations were present. It was resolved that the levy for the current year be increased to 2s. The secretary reported on further correspondence and some concessions gained in profits on proprietaries. Mr. H. O. Lloyd gave an address on *Current Topics*, commenting particularly on the negotiations and combined action to obtain a satisfactory revision of the Dangerous Drugs Act Regulations. Speaking on the Retail Pharmacists' Union, although it was entirely separate from the Pharmaceutical Society, he said there is no opposition between the two bodies. Every proprietor-chemist should be a member. Resolutions supporting the R.P.U., the candidature of Mr. J. E. French and Mr. H. E. Matthews for the Southern area R.P.U. Executive Committee, and recording appreciation of the work done by the Local Associations Executive Committee were passed. A collection for the Benevolent Fund of the Pharmaceutical Society realised 26s.

East Anglian Federation of Pharmacists.

The annual meeting of the East Anglian Federation was held at Colchester on March 17 under the chairmanship of the President, Mr. P. Robinson. The treasurer (Mr. J. W. Bodger) presented his report for the year, showing a balance in hand of 5*l.* 16*s.* 8*d.*, and stated that over 10*l.* had been collected for the Benevolent Fund of the Pharmaceutical Society during the year. The secretary (Mr. S. G. Tydeman), in presenting his annual report, referred to the work which had been done by the Federation during the first year of its existence in its present enlarged form. He also referred to the present position having regard to the formation of the Retail Pharmacists' Union, and stated that it was impossible at the moment to say what would eventually become of the Federation, but it would be a pity if it were not continued on lines similar to those on which it now existed. The retiring President, Mr. P. Robinson, Norwich, in giving his annual address, outlined the position of the Federation from its inception in East Anglia, and showed its usefulness. Referring to the fact that the East Anglian section was never represented on the Local Associations Executive at all, he said the disadvantage of being grouped with the Midland area is again evidenced in the R.P.U. Executive election, inasmuch that first-hand details of the election were available to the Midland Federation, owing to their direct representation on the L.A.E., before the official information was received by the East Anglian Federation. He hoped that in future this state of affairs would be remedied, and that they, as a body composed of a large number of chemists scattered over a wide area, would be directly represented on all the governing bodies connected with pharmacy. Mr. Body and himself had been nominated for election to the R.P.U. Executive, and hoped that with the support of the Federation they would prove successful. The officers for the ensuing year were elected as follows: *President*, Mr. S. T. Milbank, Bishops Stortford; *Vice-Presidents*, Mr. S. F. Body, Southend-on-Sea, and Mr. P. Robinson, Norwich; *Treasurer*, Mr. J. W. Bodger, Peterborough; *Secretary*, Mr. S. G. Tydeman, East Finchley, N. 2; *Committee*, the foregoing officers with Messrs. Barker (Cambridge), Beeston (Norwich), England (Essex), Hamson (Peterborough, Male (Great Yarmouth), Nicholls (Essex), and Wiggan (Ipswich). It was resolved to support the candidature of Messrs. Body and Robinson for the R.P.U. Executive, and also that of Mr. Body for the Pharmaceutical Council in May. Having regard to the efforts of the Pharmaceutical Society, with others, in connection with the Dangerous Drugs Act, it was resolved that a letter of congratulation be addressed to the Society on the result of their efforts, with an expression of appreciation to Sir W. S. Glyn-Jones for his personal work. It was decided to hold the next meeting at Lowestoft in June.

South Wales and Monmouthshire Federation.

A MEETING of the South Wales and Monmouthshire Pharmacists' Local Associations Federation was held at Tonypandy on March 17, when the President, Mr. H. M. Lloyd (Merthyr), presided over an excellent attendance. A discussion on the profits of proprietary medicines not at present on the Proprietary Articles Trade Association's protected list was held, and the question of a boycott considered. Mr. L. Joseph, a member of the P.A.T.A. Council, gave a *résumé* of the activities of that Council in this matter, mentioning that in practically all cases where representatives of the P.A.T.A. had interviewed the manufacturers of these medicines a satisfactory result had been obtained. Negotiations are still proceeding with the makers of the few remaining medicines. It was resolved that letters be sent to a number of the manufacturers, pointing out the advisability of allowing their nostrums to be added to the P.A.T.A. list. The question of the supply of milk foods to the Infant Welfare Centres was introduced, the secretary stating that all the medical officers in this area had been circularised on this matter, suggesting that only necessitous persons should receive the benefit, and that non-branded dried milk foods and other dietetics should be supplied by the pharmacist in open competition. The secretary said that favourable replies had been received. The question was

deferred, as it was understood that the Retail Pharmacists' Union would be taking steps in the matter. The writing of many of the Insurance prescriptions was discussed, and it was resolved that the following resolution be sent to the R.P.U.: "That medical men be requested to write Insurance prescriptions as distinctly as possible in order to reduce the possibility of error on the part of those employed at the pricing bureaux." It was unanimously agreed to support the candidatures of Messrs. C. Davis, L. Joseph, and H. O. Lloyd at the forthcoming R.P.U. election, and also that all affiliated associations be circularised to follow this example. After an excellent tea, provided by the Pontypridd and Rhondda Valleys Chemists' Association, had been partaken of, a mass meeting of pharmacists took place, under the chairmanship of Mr. H. M. Lloyd, who was supported by Mr. J. Keall (chairman of the Chemists' Defence Association and treasurer of the R.P.U.) and a number of representatives of pharmacy from the surrounding area. Mr. Keall then addressed the meeting and outlined the policy of the R.P.U.—preferring to term it a unification of trade organisations, embracing the C.D.A. and the P.A.T.A.—and prophesied that it was to be a driving force to pharmacy. Each member should devote some of his time to the securing of additional members. He spoke of the opposition that the Union, in common with similar bodies, had organised against the Dangerous Drugs Act Regulations. Mr. L. Joseph also spoke, and urged those present to support the R.P.U. On the proposition of Mr. Emrys Richards (Tonypandy), seconded by Mr. J. S. Gilbert (Swansea), it was emphatically carried that the resolution is follows be sent to the R.P.U.: "That This meeting unanimously supports the R.P.U. and pledges itself to assist associations to form branches of the Union."

Chemical and Dyestuff Traders' Association.

At a meeting of the Executive Council, held in London on March 17, the following resolution was adopted: "That while agreeing that the fullest possible amount of reparation should be obtained in Germany, the Council protests against the German Reparation (Recovery) Bill being passed through all its stages in the House of Commons without any opportunity being given for consideration and suggestion by the trades most affected." It was reported that representations respecting the effects of the Bill on traders had been made to the Prime Minister, the Chancellor of the Exchequer, and the President of the Board of Trade during the discussions on the Bill in the Commons, and that acknowledgments had been received from these Ministers. Acknowledgment was made of the courtesy of the Treasury in supplying directions on doubtful points for the information of members. An agreement was authorised to be completed between the Association and the Department of Overseas Trade for the supply, under Form K, of information respecting importers of chemicals and dyestuffs in colonial and foreign markets. Arrangements were made for the formation of local committees throughout the country and a campaign to organise trading interests in a national basis. To consider this and other matters a special general meeting is to be held in London next month.

JAPANESE DUTIES ON CAUSTIC SODA.—A Government Bill has been introduced increasing the duty on caustic soda 100 per cent. and on soda ash and natural soda 400 per cent. The aim of the measure is doubtless the protection of manufacturers of caustic soda in Japan, where there has been a large over-production.

BALL BEARINGS.—Colonel the Hon. F. S. Jackson, referring, recently, to the inducements offered to cricketers by the Press, related that on one occasion, soon after he had scored 101, he made a remark to a friend about "somebody's" pills being good. A gentleman sitting behind connected with the pill firm then got up and said, "Excuse me, sir, it would be worth any amount to us if you wrote that recommendation for us."

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts

Doctor Removed from Insurance Panel.

An inquiry was held by the Ministry of Health at Manchester, recently, into the case of Dr. John Thomas Godfrey, Royton, Oldham, to decide whether his continuance on the medical list would be prejudicial to the efficiency of the Insurance medical service. The report was laid before the Minister of Health, who has decided that from April 1 Dr. Godfrey's name shall be removed from the medical lists of the Insurance Committees for the County of Lancashire and for the County Boroughs of Oldham and Rochdale. Among the charges against him were three of obtaining from a chemist drugs and appliances for himself by means of prescriptions made out in the names of insured persons.

Reports from Local Centres.

ENGLAND.

Blackburn.—During 1920 172,723 prescriptions were dispensed at a total cost of 7,102l. 10s. 4d. The average cost per prescription was 9.87d.

Derby.—Replying to a request by the Insurance Committee, the Minister of Health has stated that an Insurance practitioner may prescribe serum and vaccines, whether autogenous, proprietary, or otherwise, provision being made in the distribution scheme for payment on the Drug-tariff basis.

Hampshire.—A meeting of the Insurance Committee was held on March 16, Mr. Gare in the chair. The secretary of the Retail Pharmacists' Union wrote acknowledging receipt of contract with the Checking Bureau. Reports from the Central Checking Bureau for September and October 1920 were accepted.

Middlesex.—At a recent meeting of the Pharmaceutical Committee the officers were reappointed in accordance with the suggestion from the Ministry of Health that the Committee should continue without re-election until June 30. No progress has yet been made in the matter of arranging new terms for Insurance dispensing, and the secretary was instructed to approach the Ministry of Health on the subject. Letters from the Insurance Committee, respecting alleged unsatisfactory dispensing services in various districts, were received, and the secretary explained what steps had been taken to investigate the complaints. There was no substantial basis for any of the complaints, and the position in each case had been fully explained to the clerk of the Insurance Committee. The deductions from the chemists' accounts for 1920, in respect of the Committee's expenses, had amounted to only 33d. in the £. The report of the checking supervisor included the following statistics:

1920	Scripts	Average Prescriptions	Average
November ...	82,174	12.59d.	102.521
December ...	73,804	12.36d.	90.654
Jan.—Dec. ...	889,942	11.48d.	1,016.915
			10.04d.

Various points arising out of the pricing of prescriptions were explained, and it was noted that, so far, not a single error had been detected in the pricing of the Ministry of Pensions prescriptions. The report was accepted. Attention was directed to the fact that a new edition of the Middlesex Formulary had been issued without prior consultation with the Insurance Committee or the Pharmaceutical Committee, and that this edition contained many serious errors. It was decided to address a letter of protest to the chairman of the Insurance Committee, and that meanwhile Middlesex chemists should be advised to continue to use the old edition.

North Riding.—At a meeting of the Insurance Committee on March 12, a report on a number of cases of excessive prescribing by doctors was submitted. Sur-charges amounting from 1l. to 20l. had been imposed. In all, fifty-five practitioners were dealt with in respect of alleged excessive prescribing for the last six months of 1919 and the first half of 1920. Out of this number only twenty-six of the practitioners had been fined.

Staffordshire.—A committee meeting of the Pharmaceutical Committee was held at Stafford on March 17, Mr. Jacks (Stone) in the chair. The question of the supply of malt and oil for the Joint Committee on Tuberculosis was considered. The secretary reported that the supply direct to patients at dispensaries would cease at the end of March, and the supply would be obtained entirely through chemists. Special prices have been arranged, and particulars will be given on application to the secretary of the Staffordshire Pharmacists' Association. The treasurer (Mr. Fowke) reported that the year commenced with a balance in hand of 103l. 15s. 3d. and closed with a balance of 5l. 13s. 4d., but further moneys had been received since.

	1919	1920
Income ...	194l. 19s. 6d.	260l. 4s. 2d.
Amount paid on Insurance prescriptions	15,637l. 7s. 0d.	20,866l. 12s. 10d.
Number of scrips ...	428,723	450,267

The balance sheet was passed, and Mr. Wood and Mr. Eymer were appointed auditors. A cheque for 397l. the first half of amount for checking in 1921, will be sent to the Retail Pharmacists' Union. Mr. Fowke was thanked for the work he has done, and the chairman said no county committee could be more fortunate in its secretary (Mr. Trotter).

March Drug Tariff.

The following are the alterations for March in the Drug Tariff for England and Wales issued by the Ministry of Health:

Lower: Acetanilidum, 4d. oz.; acetum scillæ, 9d. lb.; acid. acetic., 8d. lb.; acid. acetylsal., 5d. oz.; acid. carbolic (detached crystals), 2s. lb.; acid. carbolic liq., 1s. 10d. lb.; acid. citric. pulv., 3s. 11d. lb.; acid. tannic., 9s. 6d. lb.; ammon. brom., 1s. 11d. lb.; ammon. carb., 2s. lb.; amyllum (maize), 6d. lb.; aq. camph. ex conc., 6s. 2d. lb.; argent. nit., 4s. 2d. oz.; argent. nit. indur., 4s. 3d. oz.; argent. nit. mitigat., 3s. 10d. oz.; argent. proteinat., 1s 11d. oz.; bals. peruv., 1s. 9d. oz.; bism. carb., 14s. 3d. lb.; bism. oxid., 1s. 9d. oz.; bism. salicyl., 1s. 6d. oz.; bism. subgal., 1s. 7d. oz.; bism. subnit., 13s. 4d. lb.; butyl-chloral hyd., 2s. 4d. oz.; caffeine, 3s. 6d. oz.; caffeine. cit., 2s. 4d. oz.; calc. lact., 5s. 8d. lb.; camphora (flowers), 7s. 8d. lb.; cocain. hydrochlor., 4s. dr.; Collocl. acetone, B.P.C., 7½d. oz.; Collocl. flexile meth., 5s. lb.; crostot. carb., 2s. 4d. oz.; emul. ol. morrh. c. hypoph., B.P.C., 3s. 3d. lb.; ext. cinchonæ liq., 9s. 6d. lb.; ext. ergotæ, 9s. 6d. oz.; ext. ergot. liq., 15s. 3d. lb.; ext. liq. lic., 2s. 1d. oz.; ferri et ammon. cit., 5s. 4d. lb.; guaiacol carbonas, 2s. 2d. oz.; homatrop. hydrobrom., 6½d. gr.; hydrarg. perchlor., 7s. 2d. lb.; hydrarg. subchlor., 7s. 4d. lb.; hydrargyrum ammon., 8s. 2d. lb.; hydrargyrum c. creta, 3s. lb.; hydrargyri oleat., 5s. 8d. lb.; inf. senegæ ex conc., 6s. lb.; inf. sennæ ex conc., 3s. 4d. lb.; iodium, 1s. 9d. oz.; lin. camph., 3s. 6d. lb.; lin. camph. am. meth., 3s. 4d. lb.; lin. chlorof., 6s. 8d. lb.; lin. hydrarg., 5s. 3d. lb.; lin. terebinthinæ, 2s. 4d. lb.; lin. tereb. acet., 3s. 4d. lb.; liq. ammon. acet., 11d. lb.; liq. am. acet. conc., 1s. 11d. lb.; liq. bism. et am. cit., 1s. 9d. lb.; liq. formaldehyd., 2s. 4d. lb.; liq. hydrogen. perox., B.P., 9d. lb.; liq. hydrogen. perox. (20 vols.), 1s. 7d. lb.; mel boracis, 1s. 10d. lb.; methyl salicylas, 5s. 3d. lb.; methylsulphonal, 3s. oz.; mist. sennæ co., 1s. 3d. lb.; ol. amygdalæ, 4s. 4d. lb.; ol. anisi, 5d. oz.; ol. caryoph., 15s. lb.; ol. lini, 6s. 2d. gal.; ol. menth. pip. (redistilled), 54s. 6d. lb.; ol. morrhue (Norwegian opt.), 13s. gal.; ol. olivæ (sublime), 24s. 6d. gal.; ol. ricini, 11d. lb.; ol. santal., 4s. 8d. oz.; ol. tereb. rectif., 2s. 4d. lb.; opium pulv., 2s. 4d. oz.; paraff. dur., 1s. 2d. lb.; phenacetin, 1s. 3d. oz.; phenazon., 1s. 3d. oz.; phenolphthalein, 11d. oz.; plumbi acet., 1s. 8d. lb.; podoph. res., 4s. 6d. oz.; potassa sulphurata, 3s. 4d. lb.; pot. acet. (dry granules), 5s. 3d. lb.; pot. bicarb., 1s. 8d. lb.; pot. cit., 5s. 10d. lb.; pot. iod., 19s. lb.; pot. permang., 3s. 10d. lb.; pot. tart. acid., 2s. 3d. lb.; resorcinum, 1s. 4d. oz.; rhei rhizoma pulv., E.I., 12s. lb.; sacc. alb., 10d. lb.; sapo mollis, 2s. 6d. lb.; scammon. res., 11s. 6d. lb.; sodii brom., 1s. 11d. lb.; sodii et pot. tart., 1s. 10d. lb.; spt. chlorof., 6s. 8d. lb.; spt. juniperi, 10s. 6d. lb.; succ. tarax. 3s. 8d. lb.; sulphonal, 2s. 6d. oz.; sulphur sublim., 7d. lb.; syrupus, 1s. lb.; terebenum, 5s. 3d. lb.; theobrom. et sod. salicyl., 2s. 1d. oz.; thymol, 4s. oz.; tr. aurantii, 21s. lb.; ung. bellad., 1s. 1d. oz.; ung. hydrarg., 4s. 3d. lb.; ung. hyd. am. dil., B.P.C., 3s. 8d. lb.; ung. hyd. co., 5s. 3d. lb.; ung. resinæ, 3s. lb.; zinci valerian., 2s. 11d. oz. Gauze and cottonwool tissue, 8 oz., 16.5d.; 1 lb., 30.0d. Oiled silk, 42.0d. per yd.

Higher: Ext. nucis vom. sicc., 1s. 5d. oz.; liq. potassæ, 11d. lb.; liq. strych. hydrochl., 4s. 9d. lb.; menthol, 2s. 10d. oz.; tr. chlorof. et morph., '85, 4s. 5d. lb.

SCOTLAND.

February Drug Tariff.

The following are the alterations for February in the Drug Tariff for Scotland, issued by the Scottish Board of Health:

Acetanilidum, 6½d. oz.; acid. acetylsal., 6d. oz.; acid. citric, 4½d. oz.; acid. gallic, 1s. 3d. oz.; acid. salicylic, 3½d. oz.; acid. tannic, 1s. 2d. oz.; adeps, 2½d. oz.; aether purif., 0.720, 4½d. oz.; ammon. brom., 2½d. oz.; bals. peru., 2s. 8½d. oz.; barbitonum, 2s. 10d. oz.; butyl-chlor. hyd., 3s. 9d. oz.; caffeina, 5s. 2d. oz.; caff. cit., 3s. 6d. oz.; caloi lact., 8½d. oz.; camphora, 9½d. oz.; chloral formamid., 3s. 3½d. oz.; chloral hyd., 1s. 1½d. oz.; chloroformum camph. (B.P.C.), 1s. 3d. oz.; cocain. hydrochlor., 5s. 10d. dr.; collod. salicyl. comp. (B.P.C.), 9½d. oz.; dec. sarsæ co., 1d. oz.; dec. sarsæ co. conc., 7d. oz.; dec. senegæ, 1d. oz.; emp. canthar., 2s. 7d. sq. ft.; emp. picis, 9d. sq. ft.; emp. plumbi, 6½d. sq. ft.; ergotin (B.P., 1918), 17s. 6d. oz.; ext. cinch. liq., 1s. 7d. oz.; ext. ergot., 2s. 2½d. dr.; ext. ergot. liq., 2s. 3d. oz.; ext. glycyrrh. liq., 5d. oz.; guaiacol. carb., 3s. 3½d. oz.; hexamin., 1s. 5d. oz.; hyd. iod. rub., 2s. 3d. oz.; hyd. ox. flav., 10d. oz.; hyd. perch., 8d. oz.; hyd. subchl., 9d. oz.; hyd. ammon., 9d. oz.; hyd. c. cret., 3½d. oz.; inf. ergotæ, 1½d. oz.; inf. serpent., 2d. oz.; lin. camph., 4d. oz.; lin. chlorof., 10d. oz.; lin. hydrarg., 8d. oz.; lin. tereb., 2½d. oz.; lin. tereb. acet., 4d. oz.; liq. cresol. sapon., 3s. 2½d. Imp. pint; liq. gutta percha (B.P.C.), 1s. 4½d. oz.; menthol, 3s. 9d. oz.; methylsulphoral, 4s. 5½d. oz.; ol. caryoph., 2s. oz.; ol. menth. pip., 7s. oz.; ol. morrhue, 2s. 6½d. Imp. pint; ol. olive, 3d. oz.; papaver. cap., 2½d. each, 2s. 4½d. doz.; paraldehyd., 6½d. oz.; pepsin, 5s. 4½d. oz.; phenacetin., 1s. 10½d. oz.; phenazon., 1s. 10½d. oz.; pilocarp. nitr., 14s. dr.; pil. hydrarg., 8½d. oz.; pil. rhei co., 1s. oz.; pot. permang., 5d. oz.; pot. tart., 8d. oz.; pot. tart. acid., 3d. oz.; pulv. ipecac. co., 10d. oz.; pulv. rhei co., 7½d. oz.; pulv. trag. co., 7½d. oz.; resorcin., 2s. oz.; sacch. lact., 2½d. oz.; salicin., 5s. 2d. oz.; salol, 10d. oz.; sod. benz., 7d. oz.; sod. brom., 2½d. oz.; sod. glycerophosph., 100 per cent., 2s. 4d. oz.; sod. phosph. efferr., 5½d. oz.; sod. salicyl., 5½d. oz.; sod. sulph. efferr., 5½d. oz.; sp. chlorof., 7½d. oz.; sp. junip., 11½d. oz.; sulphonal., 4s. 2½d. oz.; syrup, 1½d. oz.; syr. aurantii, 4½d. oz.; syr. codem. phos., 6d. oz.; syr. ferri. iod., 3½d. oz.; syr. ferri. phosph., 2½d. oz.; syr. ferri. phosph. co. (B.P.C.), 2d. oz.; syr. ferri. phosph. c. quin. et strych., 4d. oz.; syr. glycerophos. co. (B.P.C.), 4½d. oz.; syr. hypophosph. co. (B.P.C.), 3½d. oz.; syr. pruni virg., 2½d. oz.; syr. rhei. 3d. oz.; syr. scillæ, 2d. oz.; syr. sennæ, 4d. oz.; terebene, 6d. oz.; thymol, 6s. 4d. oz.; tr. asaetf., 8½d. oz.; tr. camph. co., 4½d. oz.; tr. canthar., 8½d. oz.; tr. hamamel., 4½d. oz.; tr. iodi mit., 7d. oz.; tr. nuc. vom., 5½d. oz.; tr. rhei co., 4½d. oz.; ung. hyd., 5d. oz.; ung. hyd. amm., 4d. oz.; ung. hyd. co., 6½d. oz.; ung. hyd. nit., 4½d. oz.; ung. iodof., 7½d. oz.; ung. picis liq., 3d. oz.; ung. plumbi iod., 6½d. oz.; ung. resin., 3½d. oz.; ung. sulph., 3d. oz.; ung. zinci, 3d. oz.; zinci ox., 1½d. oz.; zinci valer., 4s. 2½d. oz. *Containers:* Medicine bots., 1½ oz. to 3 oz., 3d. each; 8 to 10, 4d.; 10 to 12, 4½d.; 12 to 16, 6d. Poison bots., 8 oz. to 10 oz., 4½d. each. *Appliances:* Bandages, grey open weave, 4 yd. by 2 in., 2½d. each; 2½ in., 3d.; 3 in., 3½d.; 4 in., 5d. White, 3 yd. by 1 in., 1d. each; 4 yd. by 2½ in., 3½d.; 3 in., 4d. Crêpe, 6 yd. by 2½ in., 4d. each. Gauzes, 6 yd. by 36 in., unmedicated, 2s. 0½d. per roll, boric, 2s. 2½d. per roll; carbolic, 2s. 2½d. per roll; cyanide, 2s. 3½d. per roll; sal-alembroth, 2s. 2d. per roll; sublimate, 2s. 2½d. per roll. Lints: unmedicated, 1 oz., 4½d.; 2oz., 8½d.; 8 oz., 2s. 7d.; 1 lb., 4s. 9d.; boric, 4 oz., 11d.; 8 oz., 1s. 9½d.; 1 lb., 3s. 4d. Woods: cotton, 1 oz., 2½d.; 2 oz., 4½d.; 4 oz., 8d.; 8 oz., 1s. 3d.; boric, 3s. 1½d. per lb.; 3½d. per oz.; sal-alembroth, 3s. 4d. per lb.; 3½d. per oz.; sublimate, 3s. 7d. per lb.; 4d. per oz.; gauze and cottonwood tissue, 3s. 5½d. per lb.; 4d. per oz.; wood wool, 1s. 4d. per lb.; 4d. per ¼ lb.; 1½d. per oz.; adhesive plaster, 1s. 2d. per sq. ft.

In view of the general call for economy, the Board have agreed with the Pharmaceutical Standing Committee (Scotland) that the Drug Tariff should not be reprinted for 1921. During the past year many panel committees have been indicating how economies can be effected in prescribing without detriment to treatment. The Board hope that the panel committees' suggestions will receive the careful attention of practitioners. The importance of small economies is manifest.

Retail Pharmacists' Union.

Staffordshire.—A committee meeting of the Staffordshire Pharmacists' Association was held on March 17, Mr. Whitehead in the chair. The secretary (Mr. Trotter) reported on correspondence respecting the Dangerous Drugs Act Regulations. Three members of Parliament had responded sympathetically. A letter from the Thames Valley Chemists' Association regarding an address on "What Matters in Trade," delivered by Mr. Porter, was read, and passed for circulation. The delegates to the Federation meeting of March 3, in Birmingham, reported, and gave as their opinion that the organiser of the Retail Pharmacists' Union wanted branches to be smaller than the county associations, and that it would be advisable to establish centres wherever and whenever local members could attend. Mr. Trotter appealed for a branch of the Retail Pharmacists' Union to be formed at Stafford. A committee consisting of Messrs. Fowke and Eymmer (Stafford), Jacks (Stone), Garland (Cannock), Fereday (Chasetown), Mellor (Utttoxeter), with Mr. Wood (Stafford) as secretary *pro tem.*, was appointed.

Executive Committee Election.

The voting-papers for the election of the Executive Committee were sent out on March 18, and the voting-paper is to be dispatched by post or delivered to the Retail Pharmacists' Union, 113 Temple Chambers, Temple Avenue, London, E.C. 4, on or before March 24.

Among the circulars of candidates for election which we have received is one from Mr. E. A. Atkins and Mr. Hugo Wolff, who are standing for the Metropolitan section. In the course of the address these candidates write as follows:

The Proprietary Medicines Bill contains a really nasty "snag." If we are not careful how that Bill is dealt with, pharmacy may lose the valuable concession which enables us to sell known, admitted, and approved medicines without a patent-medicine stamp.

The Dangerous Drugs Bill is but the beginning of interfering, grandmotherly legislation. We had better put up a big fight and resist this measure step by step, or we shall in the course of time be so ticketed, docketed, numbered, and card-indexed, that life will not be worth living.

The wages question as between employer and employee is a matter that will have to be dealt with from a sane and broad point of view. Undoubtedly assistants to-day require better salaries than those which existed prior to the war. At the same time those who represent your interests must bear in mind that a salary which is a fair one for a pharmacist in charge of a large multiple store may prove an intolerable burden to the proprietor-pharmacist whose limited business compels him to economise if he must have the services of a fully qualified assistant.

State dispensaries are considered in some quarters to be inevitable, and there is no getting away from the fact that the authorities consider that the prices we obtain for the drugs we use in National Health Insurance dispensing are excessive. We small proprietor-pharmacists know they are not, but we are unable to prove our case because most of us are not aware of the exorbitant profit which is made on drugs and chemicals by most of the wholesale houses. It should be the duty of the Retail Pharmacists' Union to be ever watchful and alert to see that pharmacists are not unduly exploited by having a State dispensing system thrust upon them on the grounds of economy.

The future of National Health Insurance is largely involved in the matter referred to in the foregoing paragraph. Common sense tells us that if there is only so much money to be distributed, the less we have to pay for drugs the more easily we can press for a larger dispensing-fee. The whole problem must be tackled from the purely commercial point of view. We are in business not only to render a service to the community, but to make a living, and the present dispensing-fees are still far from satisfactory. It should be the duty of the Union to resist any attempt to reduce the present fees on the grounds that the cost of living is going down, and to continue to insist on a higher dispensing-fee for the future. Moreover, steps should be taken to check the tendency on the part of the Ministry of Health to whittle away our meagre profits by introducing all sorts of regulations and modifications which tend to reduce our gross remuneration.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1921, p. 302.

(From "The Trade-marks Journal," February 9, 1921.)

- "SOPORAMINE BRAND A PHARMACEUTICAL PRODUCT," "SOPORIEN BRAND A PHARMACEUTICAL PRODUCT," for pharmaceutical products (3). By The Hoffmann-La Roche Chemical Works, Ltd., 7 & 8 Idol Lane, London, E.C. 3. 409,998/599.
- "MOOGROL"; for medicinal chemicals (3). By Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C. 1. 410,850.
- "STARTOL"; for spirits (47). By Howards & Sons, Ltd., Uphall Works, Ilford. 410,164.
- "CUTEX"; for all goods (48). By Northam Warren Corporation, 114 West 17th Street, New York, U.S.A. 405,593. (Associated.)
- "OLIVELLO"; for toilet soap, etc. (48). By J. E. Ellis, "Batavia," West Park Road, Roundhay, Leeds. 409,847.
- "KRINORA"; for perfumery, etc. (48). By R. C. Reid, 49 Neilston Road, Paisley, Renfrewshire. 410,358.
- "TUBEROLENE"; for perfumery, etc. (48). By R. Ansary, 44 Wilson Street, Finsbury, London, E.C. 2. 410,616.

(From "The Trade-marks Journal," February 16, 1921.)

- "NAGANOL BRAND"; for chemicals (2 and 3). "CERTAN" and "VENETAN"; for chemicals (2). "SOLARSON BRAND"; for medicinal chemicals (3). By Farbenfabriken vorm. F. Bayer & Co., Leverkusen, near Cologne, Germany. 408,074; 407,873; 408,972/973; 410,242.
- "AMALAH" and device of symbolic figure; for medicinal chemicals (3). By Dr. Eder & Co., 4 Küstrinerstrasse, Berlin-Halensee, Germany. 389,958/960. (Associated.)
- "NEPTUNES"; for sea-sickness preventive tablets (3). By F. L. Lytée, 3 Cambridge Street, Edinburgh. 405,182. (Associated.)
- "RESPINES"; for all goods (3). By the Harrogate Tablet Co., Ltd., 9 Station Square, Harrogate. 408,880.
- "RUDAGEN"; for medicinal tablets (3). By A. and W. J. Kearney, 25 Eastfield, Joppa, Edinburgh. 409,506.
- "CHI-WEE"; for an ointment (3). By F. D. Lee, 23 Stalker Lees Road, Sheffield. 409,555.
- "TONALETTES"; for medicinal chemicals (3). By Guy's Tonic, Ltd., 272 South Lambeth Road, London, S.W. 8. 409,864.
- "PROVISOR"; for all goods (3) and (11). "PETROID"; for all goods (11). By De Trey Frères Société Anonyme St. Annahof, Bahnhofstrasse 57A, Zurich, Switzerland. 410,405/406; 410,404. (Associated.)
- "ETHANESAL"; for medicinal chemicals (3). By Savory & Moore, Ltd., 143 New Bond Street, London, W. 1. 410,750.
- "RING-O-ROSES"; for perfumery, etc. (48). By Yardley & Co., Ltd., 105 Carpenter's Road, Stratford, London, E. 15. 408,356.

(From "The Trade-marks Journal," February 23, 1921.)

- "B P" device in circle; for chemicals (1). By Boks & Pinto, Ltd., 29 Mincing Lane, London, E.C. 3. 402,637. (Associated.)
- "VEDOL"; for photographic chemicals (1). By Johnson & Sons, Manufacturing Chemists, Ltd., 23 Cross Street, Finsbury, London, E.C. 2. 411,452.
- "KARIKURE"; for a medicine for skin diseases in animals (2). By W. G. Travers, Coxon Place (Arch 832), Tower Bridge Road, London, S.E. 1. 409,151.
- "MATAPTO"; for veterinary preparations (2). By Naamlooze Vennootschap Chemische Fabriek "Vanor," 110 Liebergeweg, Hilversum, Holland. 410,156.
- "DRYMAO"; for chemicals (2). By McDougall Brothers, Ltd., 66 and 68 Port Street, Manchester. 410,185. (Associated.)
- "NICOTEX"; for chemicals (2). By the Yalding Manufacturing Co., Ltd., near Hampstead Lane, Yalding, Kent. 411,229. (Associated.)
- "PANCON"; for medicated powders (3). By Benney & Sons, 160 Arundel Street, Portsmouth. 407,588.
- "BIWIN"; for medicinal chemicals (3) and for food substances (42). By the Liebig Medicated Wine Co., Ltd., Healey House, near Huddersfield. 409,319/320. (Associated.)
- "BILAX" on device, including portrait, eye, and wings bearing words "DOAN'S SPERMATITIES"; for pills (3). By Foster McClellan Co., 8 Wells Street, Oxford Street, London, W. 1. 409,887. (Associated.)

- "BUTOLAN BRAND"; for medicinal chemicals (3). By Farbenfabriken vorm. F. Bayer & Co., Leverkusen, Cologne, Germany. 410,563.
- "FIERY CROSS" with device of cross and flames; for all goods (3). By May, Roberts & Co., Ltd., 7-13 Clerkenwell Road, E.C. 1. 411,111.
- "KALZANA"; for food (42). By J. A. von Wülfling, 231 Friedrichstrasse, Berlin, Germany. 410,845.
- "PERIVALE PREPARATIONS" and monogram "PP" on seal device ("Perivale" and seal device disclaimed); for perfumery, etc. (48). By Langham Bros., Ltd., Perivale, West Ealing, W. 13. 409,316. (Associated.)
- "LYDES"; for perfumery, etc. (48). By Rodier & Cie., 29 Rue Auguste, Bailly à Courbevoie, France. 409,690.
- "SCARANOUCHE"; for perfumery, etc. (48). By Yardley & Co., Ltd., 105 Carpenter's Road, Stratford, London, E. 15. 410,876.

(From "The Trade-marks Journal," March 2, 1921.)

- "FERUMA"; for chemicals (1). By C. H. Sankey, 74 Cheapside, London, E.C. 2. 411,674.
- "TARX"; for all goods (2). By Coal Tar Products Incorporated, Suite 570, 122 S. Michigan Boulevard, Chicago, Ill., U.S.A. 409,631.
- "DRYDO"; for powder for destroying beetles, etc. (2). By H. Cook, 33 Lambrook Terrace, Fulham, London, S.W. 6. 410,144.
- "LATHARCOAL"; for medicinal charcoal for animals and birds (2). By J. B. Latham & Co., Ltd., Flaxman Works, Eastlake Road, Camberwell, London, S.E. 5. 411,616.
- "AURORA," with picture of sale; for medicated dental cement, etc. (3), and for dental goods (11). By the International Tooth Co., Ltd., 24-28 Grafton House, Golden Square, London, W. 1. 400,490/491. (Associated.)
- "D'ONGE"; for medicinal chemicals (3) and for perfumery, etc. (48). By Nathan & Cie., Laboratoires Cadum, 5 Boulevard Mission Marchand, Courbevoie, France. 408,398/399. (Associated.)
- "SEPTOGEN"; for medicinal chemicals (3). By N. Couve, 20-22 Sir William Newton Street, Port Louis, Mauritius. 409,363.
- "PEARLSRING"; for medicinal chemicals (3). By Camwal, Ltd., 112 Pembroke Street, Caledonian Road, London, N. 1. 409,752.
- "DIANA"; for medicinal chemicals (3). By Diana Franzbranntwein-Production Gesellschaft mit Beschränkter Haftung, Engerthstrasse 169, Vienna II, Austria. 409,768. (Associated.)
- "BALMEX BRAND OINTMENT"; for ointment (3). By I. Atkinson & Co., Ltd., 285 Brockley Road, London, S.E. 4. 410,465.
- "A'TISHOO"; for medicinal chemicals (3). By Lorimer-Marshall, Ltd., 12 Tower Hill, London, E.C. 3. 410,582.
- "HEMOSTYL" and "HEMOXYL"; for medicines (3). By G. E. Roussel, 84 Boulevard des Batignolles, Paris. 410,729/730. (Associated.)
- "ASEPTOLAX"; for medicinal chemicals (3). By The Wm. Browning Co., Ltd., Albert Street, Park Street, London, N.W. 1. 411,256.
- "HORDEOL"; for dietetic food preparations (42). By J. Wakefield, 1 Easy Row, Birmingham. 410,009.
- "KELOKREME"; for all goods (42). By W. J. Jones, Llwyn-Onn, Allerton Drive, Liverpool. 410,885.
- "KLYNTAK"; for grease and stain removers (47). By A. H. Paton, 82 Whippendell Road, Watford, Herts. 411,186.
- "PLEXOBEL"; for goods (47) and for perfumery, etc. (48). By A. Finlay, Ltd., Victoria Square, Belfast. 411,347/348. (Associated.)
- "TANGRETTE"; for perfumery, etc. (48). By Lepers & Biron Co., Ltd., 46 Artillery Lane, London, E. 1. 403,451.
- "CLARION"; for perfumery, etc. (48). By P. Lunt & Co., 37-47 Hornby Street, Liverpool. 405,965.
- "CARREX"; for shampoo-powders (48). By M. Crawshaw, 1 Bolton Street, Ramsbottom, Lancs. 408,468.
- "FIXANTINE-BOLS" ("Bols" disclaimed). For all goods (48). By Etablissements Bols, 37 Rue Boileau, Montbronne, France. 409,277.
- "ODERINE"; for toilet-powder (48). By W. B. Baldrick and Maude Harrison, 6 Berkley Road, Regent's Park, London, N.W. 1. 409,872.
- "DORILLY"; for perfumery, etc. (48). By Société Anonyme des Produits Dorilly, 26 Rue de Maubeuge, Paris. 411,093.

(From "The Trade-marks Journal," March 9, 1921.)

- "DIASTROL"; for a chemical substance (1) and for goods (47). By the Sandoz Chemical Co., Ltd., Craven Bank Chambers, Market Street, Bradford. 410,250/336. (Associated.)

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, March 23.

In view of the Easter holidays, the Mincing Lane produce markets will be closed from Wednesday evening, March 23, to Tuesday morning, March 29. A slightly better tone is reported from several quarters, but hand-to-mouth buying is still the rule, and likely to be until the outlook is clearer. In some directions it is thought the worst of the depression and the consequent fall in prices is coming to a close, as there are so many items below the economic cost of production. The trade agreement which has been signed with Soviet Russia should make for an improvement in the markets presently. In drugs there are few changes to report. Cod liver oil is again cheaper on a continued good yield of oil, but the market cannot be far off bottom. Chinese crude camphor is firm and comparatively scarce. Japanese refined is still easy. Chinese galls are a trifle easier. Russian and Chinese cantharides are offered at lower prices. Ergot is dull and easy. Colocynth is scarce and firmly held. Honey continues to be offered at favourable prices, and for East African beeswax lower prices have been accepted for round lots. Menthol and ipecacuanha are dull of sale. Jamaica ginger has been sold for export at lower prices. Spices, like pepper, are selling for consumption only, there being little speculative buying. Shellac is irregular on spot for TN, and May delivery is lower. Turpentine is 2s. per cwt. lower.

Firmer	Easier	Lower
Amidopyrin	Camphor (Jp. ref.)	Benzyl benzoate
Barbitone	Clove oil	Cantharides
Chloral hydrate	Cod-liver oil	(Russian and Chinese)
Cresote carbonate	Galls (Chinese)	Coumarin
Farina (Jp.)	Gum acacia	Ginger, Jamaica
Guaiacol carb.	Lead acetate	Nutmegs (forward)
Phenacetin	Peppermint oil	Potash bichromate
Potash permang.	Vanillin	Potash caustic
	Wintergreen oil	Shellac (futures)
		Soda bichromate
		Terpineol
		Turpentine

Cablegrams.

BERGEN, March 22.—The total catch of cod since the opening of the season now amounts to 17,700,000, against 12,900,000 at the same period of last year, and the yield of steam refined medicinal cod liver oil is 32,034 hectolitres, against 20,195 hectolitres at the corresponding date of 1920. Finest new Lofoten oil is quoted at from 105s. to 100s. per barrel c.i.f.

NEW YORK, March 22.—Business is quiet. Opium is 50c. per lb. lower at \$6.00 per lb., duty paid, for druggists'. Menthol is lower at \$4.25. Hydrastis is cheaper at \$4.75, likewise jalap at 30c. Gentian has declined to 9c., cascara sagrada to 13½c., and short buchu to \$1.45. Acetanilide has been reduced to 30c. and hexamine to 95c. Codeine salts are lower at \$5.77 per oz. for sulphate and \$5.17 for phosphate; the pure alkaloid is \$7.17. Balsam peru is dearer at \$1.75 per lb.

London Markets.

AGAR-AGAR.—The exports from Japan during December 1920 were 27,846 kin, valued at 32,600 yen. During the twelve months ended December 31 they were as follows:

	1918	1919	1920
Kin	2,639,456	1,507,154	942,827
Yen	2,969,311	2,053,071	1,428,134

ANTIMONY.—The demand for crude is slow, with quotations ranging from 19½. upward c.i.f. United Kingdom. Foreign refined continues to be offering freely from Japan and China, and the few inquiries coming on the market do not lead to much business. Stocks in the Far East appear to be still rather considerable.

CAMPHOR (CRUDE).—Chinese is firm at 2s. 9d. per lb. for fair white quality, there recently having been some good buying orders for Germany. For March-May shipment prices are easy at 2s. 3d. per lb. c.i.f.

CAMPHOR (REFINED).—Japanese 2½-lb. slabs are easier, with spot sellers at 4s. per lb., and May-July shipment is 3s. 6d. per lb. c.i.f.

The exports from Japan during December 1920 were 33,314 kin, valued at 95,634 yen. During the twelve months ended December 31 they were as follows:

To	1918 Kin	1919 Kin	1920 Kin
British India	361,179	67,521	395,728
Great Britain	383,911	175,317	133,859
France	90,404	146,222	28,588
United States	595,622	1,569,506	294,007
Australia	94,946	2,026	28,322
Other Countries	238,155	70,688	153,063
Kin	1,764,217	2,031,280	1,033,567
Yen	3,686,375	7,883,875	4,965,350

CANTHARIDES.—Russian of good quality on the spot can be had at about 10s. 6d. per lb., as the quotation for arrival has been reduced to 9s. 6d. c.i.f. Chinese flies are also easier at about 4s. 9d. on the spot, with March-April shipment offering at about 3s. 4½d. c.i.f.

CARDAMOMS.—Good bold pale Ceylon-Mysore are offered at 5s. 3d., medium at 4s., small 2s. to 2s. 6d., and green Aleppy 1s. to 1s. 4d. per lb.

CASCARA SAGRADA is unchanged, with spot sellers at 95s. per cwt. for two-year and 97s. 6d. for three-year old.

CLOVES remain quiet, with sellers of fair Zanzibar offering at from 9½d. to 10d. per lb., and April-June shipment at 8½d. c.i.f.

COCA LEAVES.—Further particulars of the Amsterdam auction to be held on March 30 show that the 1,455 bales and 115 cases Java leaf weigh 86,059 kilos., the total alkaloidal content amounting to 1,208 kilos.

COD-LIVER OIL.—With a continued good fishing and yield of oil the market is still declining, and from 90s. to 95s. per barrel c.i.f. is quoted, with up to 105s. to 110s. according to shipper.

COLOCYNTH.—No arrivals have taken place for a lengthy period. The value of good Turkey apple is about 2s. per lb., and pith at from 1s. 6d. to 1s. 9d. as to colour.

EGG PRODUCTS are quiet. Chinese liquid hen-yolk is still quoted at 100s. per cwt. for prime, with rather buyers; and for April-June shipment 65s. per cwt. c.i.f. has been paid. Dried yolk is 5d. per lb. on the spot, sprayed whole egg 1s., and native dried whole is 6d. per lb. spot. Prime Chinese hen albumen is easier at 2s. 8d. per lb. on the spot. For April-June shipment sellers quote 2s. 4½d. per lb. c.i.f.

ERGOT.—Good sound Spanish on the spot can be had at from 4s. 3d. to 4s. 9d. per lb., and to arrive from the United States 3s. 6d. c.i.f. is quoted, which is considerably under the cost to import.

FARINA is firmer, with Japanese No. 1 offering at 23s. per cwt. on the spot, and March-May shipment is now 19s. 6d. c.i.f. Dutch is quoted unchanged at 19s. 6d. spot for fine quality, and for March-May shipment 18s. 3d. c.i.f. is asked. Sweet-potato flour is 23s. per cwt. on the spot.

GALLS.—Chinese are easier, with plum-shaped offering at 105s. per cwt. on the spot, and to arrive at 82s. 6d. c.i.f.; ordinary on the spot is 97s. 6d., and to arrive 65s. c.i.f.

GINGER.—Jamaica is quoted lower, with little demand, medium to good offering at 110s. to 120s. per cwt., and common 90s. to 100s. Japanese and African continue neglected. New crop Cochin is quoted at 35s. per cwt. c.i.f.

GUM ACACIA is easier, fair Sudan sorts offering on the spot at 47s. 6d. per cwt., and cleaned at 52s.

HONEY is quiet and unaltered, but there seems little room for a further decline from present reasonable prices. Good pale-set Jamaica can be had at 65s., fair amber 50s., and dark 40s. per cwt. Australian set is from 45s. to 50s. as to quality; dull canary Porto Rico can be had at 45s., and Californian meets with a slow sale at 65s. for unassorted pale to light amber. Fine white set Chilean in barrels is selling up to 80s. per cwt. ex Liverpool.

IPECACUANHA is quiet, with Matto Grosso offering at 11s. and Minas at 10s. per lb.

LINSEED OIL.—Prices have had narrow fluctuations, while the very stiff terms ruling for linseed on the spot and parcels due to arrive somewhat encourage makers in holding up their prices. Orders in the Hull market seem to be more easily placed than elsewhere, while the comparatively lofty views of crushers at Liverpool render business there almost impossible. Home consumers have been buying moderately, but export inquiries are more restricted. London closes at 29l. naked and Hull at 27l.

MENTHOL continues dull, with spot sellers of Kobayashi-Suzuki at 21s. 6d. to 22s. per lb., and for May-June shipment 17s. 6d. c.i.f. is quoted.

The exports from Japan during December 1920 were 15,390 kin, valued at 143,613 yen. During the twelve months ended December 31 they were as follows:

	1918	1919	1920
Kin	237,311	239,973	370,470
Yen	1,544,307	2,546,898	5,489,815

MERCURY.—The tone is perhaps rather firmer, but business is limited. Current quotations range from 12l. 10s. to 12l. 15s. per bottle. Far Eastern inquiries are reported for fair-sized lots running into 250 bottles, but buyers are not very keen.

NUTMEGS.—Singapore 80's are selling at about 1s. 2d. per lb. on the spot; but are quoted lower to arrive.

PEPPER is firmer, Singapore black selling at 3½d. to 4d. per lb. on the spot. To arrive, April-June shipment has been sold at 3½d. to 3½½d. per lb. c.i.f. Fair Tellicherry is quoted on the spot at 4½d., Lampong at 4½d., and Aleppy 4d. White Muntok is easier at 8½d. For March-May and April-June shipment from 7½d. to 8½d. per lb. c.i.f. has been paid. White Singapore is easier at 7½d. on the spot. To arrive, March-May shipment, the value is 7½d. c.i.f.

PIMENTO is quiet, with spot sellers at 27d. per lb.

SHELLAC continues quiet, the spot price of usual standard TN Orange quality varying from 280s. to 300s. per cwt. Fine lemon is 390s., fine second orange 320s. to 340s., RL 1 330s., and AC cakey 300s. per cwt. Futures are lower, the sales including May at 195s. to 185s.

TURPENTINE is very slow, with consumers hoping to see further sagging in the price, although dealers are rather puzzled that the fall is still unchecked in face of the very light imports and the continuous fall in stocks. Dealers are reserved, and the squeezing tactics which in the past were a feature towards the spring are conspicuous by their absence. Enormous losses have, of course, been made in recent months, and this goes a long way to explain the utter lack of new interest, so that the market is entirely subject to the trade demand under most adverse financial conditions here and in America. Spot and to April closes at 50s. per cwt.

VANILLIN is slightly easier, with spot sellers at 36s. per lb.

WAX, VEGETABLE.—Japanese is quiet, with spot sellers at 105s. per cwt., and to arrive at 82s. 6d. c.i.f. The exports from Japan during December 1920 were 63,963 kin, valued at 20,167 yen. During the twelve months ended December 31 they were as follows:

	1918	1919	1920
Kin	8,924,049	1,648,724	730,315
Yen	3,103,516	725,507	346,022

Essential Oils.

MOVEMENTS in the Italian exchange seem to have held up c.i.f. quotations for lemon, bergamot, and orange oils, but, at the moment, the improvement, in Italy's favour, has not been maintained. Spot stocks, however, appear

to be sufficient for the present requirements of buyers. Otherwise there is not much change in the situation except that the downward movement in most articles is less marked. Hand-pressed lime oil is firmly held in view of further orders on the market. Clove oil from distillers is slightly easier. Peppermint is weaker, and wintergreen oil also shows a slight decline. Among the chemicals, benzyl benzoate, coumarin, and terpineol can be obtained on more advantageous terms.

ANISE, STAR, is quiet and steady at from 2s. 4½d. to 2s. 6d. per lb. for "Red Ship" brand. To come forward 2s. 2d. c.i.f. is quoted.

BAY.—West Indian is unchanged at 18s. to 20s. per lb. for spot.

BERGAMOT.—There appears to have been very little inquiry during the week, and spot quotations are still around 21s. per lb. The fluctuation in the exchange renders c.i.f. quotations unreliable.

CASSIA is unchanged at 4s. 3d. per lb. for spot 80 to 85 per cent. c.a. The c.i.f. quotations vary from 3s. 4d. to 3s. 6d.

CITRONELLA.—Ceylon is nominal at from 1s. 4d., to 1s. 5d. per lb. for the pure, and Java is unchanged at 3s. 1½d. to 3s. 3d.

CLOVE.—English distilled on the spot is easier from distillers at 6s. 6d. to 7s. per lb.

LEMON.—From 3s. to 3s. 6d. per lb. represents about the average spot quotation. To come forward c.i.f. quotations are nominally unchanged at last week's figures, but the uncertainty of the rate of exchange has to be taken into consideration.

LEMONGRASS is unchanged at 5½d. per oz. for Cochin on the spot.

LIME.—Hand-pressed is firm and spot stocks would probably be difficult to find at less than 19s. to 20s. per lb.

MINT.—On the spot Kobayashi-Suzuki is unchanged at 4s. 1½d. per lb. To come forward is quoted at 4s. 3d. c.i.f.

The exports from Japan during December 1920 were 14,150 kin, valued at 39,775 yen. During the twelve months ended December 31 they were as follows:

	1918	1919	1920
Kin	214,635	409,199	313,630
Yen	549,716	1,307,113	1,812,366

ORANGE.—Sicilian sweet on the spot is unchanged, from 10s. to 12s. 6d. per lb. being quoted according to holder. Spanish sweet is quoted at 11s. per lb. and 11s. 6d. for superfine.

PEPPERMINT.—American tin oil is lower on the spot at 22s. 6d. per lb. To come forward it is quoted at 19s. c.i.f. Stocks in New York are reported to be small, but holders in the Western States are showing greater inclination to unload.

THYME.—Spanish red is offered at 5s. 9d. to 6s. per lb. on the spot for 25 to 30 per cent. phenols; 40 to 45 per cent. at 7s. 4d.; and 60 per cent. at 9s.

WINTERGREEN (SWEET BIRCH OIL).—Natural is slightly easier at 27s. 6d. per lb. for spot.

WORMSEED.—Spot sellers still quote 30s. per lb., but to come forward the price is given at 25s. to 26s. c.i.f.

Aromatic and Synthetic Chemicals.

BENZYL BENZOATE has declined sharply, and 3s. 6d. per lb. is quoted ex wharf London. COUMARIN is cheaper at 10s. per lb. in cwt. lots. HELIOTROPINE is obtainable at 12s. to 13s. per lb. for spot. TERPINEOL water white is offered at 1s. 6d. per lb. ex wharf London in round lots.

Pharmaceutical Chemicals.

March 23.

No doubt owing to the certainty of the Reparations Bill now passing through Parliament very shortly becoming an Act, many of the fine chemicals for which Germany has been the chief source of supply have firmed up, and in quite a number of cases advanced in price. The market, however, continues very quiet, and the higher prices at which quotations are being made are leading to but few sales. These prices, however, will certainly be maintained if the Act is kept in force for any length of time. Bromides and salicylates are chiefly affected, and to a less extent creosote carbonate and guaiacol carbonate.

ACETANILIDE remains a dull market, but values are steadier at 1s. 10d. to 2s. per lb.

AMIDOPYRIN is now quoted at about 23s. to 24s. per lb., with the market much firmer.

ASPIRIN remains firm, and in fair demand, finest quality offering in small lots at 3s. 3d. per lb. and slightly less for quantity.

BARBITONE remains quiet, but the market has a much better tone. Quotations now steady at about 15s. 6d. to 16s. per lb.

BENZALDEHYDE O3 is only moving very occasionally, and is still quoted at 4s. 6d. per lb.

BENZOIC ACID is maintained at 2s. 3d. per lb. The market is still quiet and weak.

BROMIDES.—With the arrival of several parcels the market in potassium has become more subdued and less interest on the part of speculators is shown. Prices are, however, steady at from 1s. to 1s. 1d. per lb. Ammonium is also steady at from 1s. 2d. to 1s. 3d. per lb. and sodium is 1s. 2d.

CALCIUM LACTATE remains unchanged and quiet at 2s. 9d. to 3s. per lb.

CHLORAL HYDRATE has jumped considerably during the week, and is now a firm market at 5s. to 5s. 3d. per lb.

CITRIC ACID.—Quite a fair quantity has changed hands during the past fortnight at about 2s. to 2s. 1d. per lb. from dealers, but the lowest spot value is now 2s. 3d. for B.P. crystals in the open market.

CREAM OF TARTAR is steady at 130s. per cwt. for B.P. quality on the spot for foreign powder, and there is less readiness to accept orders below current values.

CREOSOTE.—B.P. is inclined to firm up; average quotations, about 4s. 9d. per lb. The market is quiet.

CREOSOTE CARBONATE has advanced and is now quoted at about 20s. per lb., but very few sales are being made.

GUAIACOL CARBONATE varies considerably. Some quotations are still at 18s. per lb., others much higher.

HEXAMINE is firm and now quoted at 6s. 6d. to 6s. 9d. per lb. Market remains quiet.

HYDROQUINONE.—Rather more interest is shown, in view of the photographic season, and the hitch in procuring further supplies from Germany; current values are from 5s. 6d. to 6s. per lb.

METHYL SALICYLATE continues quiet, but offers are steady at about 3s. per lb.

METHYL SULPHONAL.—B.P. is firm, and is quoted at 18s. to 18s. 6d. per lb.

PARAFORMALDEHYDE is unchanged, with the market remaining dull at 4s. per lb.

PARALDEHYDE has steadied and is now quoted at 2s. 3d. to 2s. 6d. per lb. The market remains quiet.

PHENACETIN.—Market has a much better tone, and prices range from 7s. 9d. to 8s. 3d. per lb.

PHENAZONE.—Parcels outside of makers' hands continue to offer cheaply, but there is not much demand. Prices range from 8s. to 9s. per lb., according to seller.

PHENOLPHTHALEIN continues steady and quiet at 5s. 3d. to 5s. 6d. per lb.

PIPERAZINE is maintained, but is weak on a quiet market at 4s. 6d. per oz.

POTASSIUM IODIDE.—The exports from Japan during December 1920 were 2,245 kin, valued at 23,880 yen. During the twelve months ended December 31 they were as follows:

	1918	1919	1920
Kin	184,950	99,055	19,370
Yen	1,156,469	651,027	166,533

Of crude iodine the exports during December 1920 were 279 kin, valued at 2,544 yen. During the twelve months ended December 31 they were:

	1918	1919	1920
Kin	61,389	18,117	12,852
Yen	407,028	126,762	90,855

POTASSIUM PERMANGANATE.—B.P. crystals appear much steadier at about 1s. 10d. to 2s. per lb. There is a little business being done.

POTASSIUM SULPHOGUAIACOLATE is unchanged on a very quiet market at about 9s. to 10s. per lb.

QUININE.—A fair business has been done lately in sulphate from second-hands at 3s. 6d. per oz., from which prices run to 3s. 7½d.

SALICYLATES remain firm, current values of B.P. salicylic acid powder being from 1s. 2d. to 1s. 3d. per lb. Sodium salicylate is in fair demand, B.P. powder offering at from 2s. 5d. to 2s. 6d. per lb., with the usual premium for crystals.

SALOL is still lifeless at 3s. 9d. per lb. nominal.

SILVER NITRATE.—The price of crystals on March 22 was based on a metal price of 34½d. per oz. as follows: In quantities of 25 oz., 2s. 2½d. per oz.; 50, 2s. 2d.; 100, 2s. 1½d.; 250, 2s. 1d.; 500, 2s. 0½d.

SODA BENZOATE is unchanged at 2s. 3d. per lb.

SODA DIETHYLBARBITURATE is maintained at about 24s. 6d. per lb., with the market continuing quiet.

TANNIC ACID.—B.P. *levis* is unchanged at about 4s. 9d. to 5s. per lb.

TARTARIC ACID is extremely dull, with spot sellers of Italian or German at about 1s. 7d. to 1s. 8d. per lb.

TERPIN HYDRATE is steady and inclined to firm up at about 4s. 3d. per lb.

THYMOL is quoted at 27s. 6d. per lb. on a quiet market.

Heavy Chemicals.

March 23.

THE market is generally unchanged; business continues only of the smallest dimensions for home requirements. Export trade seems quite dead for the time being, there being practically no demand. Values have remained stationary during the past week, and are rather unsettled owing to the uncertainty of the Reparations 50 per cent. Duty which imported products from Germany may become liable to from March 31. It is not likely that prices will fall much below those now quoted, and, should a revival of business take place, a general advance in quotations will certainly be effected, as the current figures are much below those of the cost of manufacture.

ACETIC ACID is still being offered in fair quantities on spot, but there is practically no improvement. Pure 80 per cent., about 50l. to 51l. per ton; glacial is about 56l. per ton. Values remain very unsteady and weak.

ALUM is still obtainable in moderate quantities on spot at 19l. per ton for lump in casks, but is not being inquired for.

ARSENIC remains very quiet, with prices maintained at about 50l. per ton for best white powder.

BICHROMATES.—On and from March 21 English makers, owing to slackness of trade and foreign competition, reduced their spot prices to 7½d. per lb. net for sodium bichromate, and to 9½d. for potassium bichromate. They are willing that these prices should meantime affect contracts for sodium bichromate which were made at a higher figure, though the figure at which they were made was definitely fixed. All deliveries made after March 21 under contract will therefore be at 7½d. per lb. net. Of course any alteration in the spot price will lead to a revision. In the open market American sodium bichromate is offered at about 7d. per lb. c.i.f. U.K. and Continent.

BLEACHING POWDER is still offering, but not in demand. Quotations are maintained at about 20l. per ton in hardwood casks. Continental stuff is also offering.

CARBOLIC ACID remains unchanged at 7½d. per lb. for 39° to 40° C. ice crystals.

COPPER SULPHATE is quoted by makers at 35l. per ton in casks, at 34l. in bags; but the demand is very poor.

FORMALDEHYDE continues very quiet, with prices still unsteady at about 112l. 10s. to 115l. per ton. These figures are easy.

LEAD PRODUCTS.—White lead in oil is quoted at about 59l. per ton; dry, at 41l. 10s., less 5 per cent. The market is very quiet. Lead acetate has weakened and now quoted generally at about 50l. per ton for brown broken and 55l. to 56l. for white crystals.

LITHOPONE continues fairly steady, with prices unchanged from last week. A little business is being done. Thirty per cent. Continental Red Seal, about 30*l.* to 31*l.* per ton; Green Seal, about 36*l.* to 37*l.* Values appear fairly steady.

OXALIC ACID is maintained at 10*d.* per lb., and the market has a much better tone.

POTASH CAUSTIC has experienced a considerable drop in prices, 80 to 92 per cent. material being now quoted at 40*l.* to 45*l.* per ton. A fair inquiry is being received.

POTASSIUM CHLORATE continues uncalled for, offering at about 6*d.* to 6½*d.* per lb. for crystals and powder.

POTASSIUM PERMANGANATE.—Commercial quality is still quoted by makers at 2*s.* per lb., spot lots offering at about 1*s.* 8*d.* to 1*s.* 9*d.*; market is steadier.

SAL AMMONIAC is offered at 50*l.* per ton in lump for imported; demand has improved.

SALTCAKE is not moving at all, and holders of stocks find it practically impossible to sell at any figure. Quoted nominally at 7*l.* per ton in bulk, f.o.b., 8*l.* in bags. Makers' price is 10*l.* per ton f.o.b. in bulk.

SODA ASH (58 per cent. light alkali) has eased off slightly, and is now quoted on spot at about 9*l.* per ton f.o.b., but the demand is very poor. Makers' prices for home trade only is maintained at 8*l.* 10*s.* per ton.

SODA CAUSTIC is still offering on spot at 21*l.* 10*s.* to 22*l.* per ton, but is still uncalled for, and prices are unsteady. Makers' prices are maintained at 24*l.* 10*s.* per ton for home trade only. American 76 per cent. material quoted c.i.f. U.K. and Continental at competitive figures.

SODA CRYSTALS are quoted by makers unchanged at 7*l.* per ton in bags. Market dull. Limited supplies on spot are offering at 7*l.* 10*s.*, but not moving.

SODIUM BICARBONATE is still offering at last week's figures of 10*l.* 10*s.* per ton for refined in bags, and 10*l.* for mineral water, but the demand is very small.

SODIUM HYPOSULPHITE, photographic quality, in kegs, is offering at about 26*l.* per ton; commercial quality, 20*l.* to 21*l.* per ton in bags and casks. There is but the smallest demand, and prices are unsteady.

SODIUM NITRATE continues dull, and is nominally 21*l.* 10*s.* per ton for 96 per cent. material, f.o.r. Liverpool.

SODIUM PRUSSATE continues to be offered at 8½*d.* to 9*d.*, but is in very poor demand and prices are not steady.

SODIUM SULPHIDE (60 to 62 per cent. solid) is very unsettled. Some parcels are offering very cheaply, but the general figure is about 29*l.* per ton. Makers' price for 60 to 66 per cent. concentrated is 28*l.* per ton.

SODIUM SULPHITE is neglected and nominally quoted at 50*l.* per ton for anhydrous material.

TIN CRYSTALS remain dull; best material is 1*s.* 7*d.*, and seconds 1*s.* 6½*d.* per lb.

ZINC OXIDE is unchanged at: White seal, 44*l.* 10*s.* to 47*l.*; green seal, 42*l.* 10*s.* to 45*s.*; and red seal, 40*l.* per ton.

COAL-TAR PRODUCTS.—The market continues very quiet, with only the smallest of business. Values are generally maintained and remain quoted at last week's figures, but are not firm.

Hamburg Drug and Chemical Markets.

RECENT events have moved a leading Hamburg wholesale drug-house to lapse into poetry in the introductory remarks to its market report, dated March 16. During the month which has elapsed since the issue of its last report events of immense, world-wide political importance have taken place. Prior to the war the German nation consisted of a well-balanced people, but the war, the revolution, and their consequences have upset everything; connections have been torn asunder, gulfs have been created, such as had never been dreamt of in Germany. The path to Canossa—in this case to London—has brought Germany to her senses at last. Bismarck once stated, "Things must be very bad for us Germans before we pick up courage. As long as we have something to lose we are afraid; but if we have been stripped and plundered then everyone is a lion." This is followed by a quotation from a poem by J. H. Brach,

entitled "To the People," of which the following is a literal translation: We must stand together and work together, no guns and no arms—but plough the soil and move the mountains by machinery. We shall yet compel the world to admire and honour us, and bring reconciliation. Hands and fists, start working! Statesmen are no merchants, and business men are not trained diplomats; however, the business man possesses a far-seeing outlook, and we hail the fact as a satisfactory sign that the English business man, who enjoys the reputation of being particularly far-sighted, is apparently dissatisfied with the results of the London Conference and its effects upon the future course of the world's trade. Other nations are apparently of the same opinion, particularly the more important neutral countries. Owing to the uncertainty as to their future development, the results of the London Conference have had a paralysing influence on international trade. For the present it may be assumed that Germany's import and export trade will be reduced, which will lead to firmer prices in imported articles, and will not be without influence on the prices of home goods. Prices in the drug and chemical market are likely to prove highly interesting in the near future, as during the war and revolution we found that the prices of this class of articles were liable to violent fluctuations. Following quotations are per kilo. for orders for original packages:

ACETANILIDE has further declined considerably to m.23, owing to the fact that hidden stocks still continue to be unloaded.

ACETIC ACID (glacial 98/100 per cent.) is firm at m.16.50 owing to scanty supplies.

AMMONIUM BROMIDE is only in slight demand at m.25.

ANTIPYRINE is in demand at the lower price of m.250.

ASPIRIN has been in demand at m.140 for home and m.190 for export.

ATROPINE has again declined to m.9,000.

BALSAM PERU.—A new delivery has reduced the price to m.280.

BENZALDEHYDE, almost free from chlorine, for foodstuffs, is in general demand at m.42 for home and m.45 for export, at which price manufacturers are unable to supply.

BENZOIC ACID has been neglected at m.40.

BISMUTH SUBGALLATE and BISMUTH SUBNITRATE are quoted at m.240; stocks are low.

BUCKTHORN BARK has declined to m.11 and "cut" to m.12, without any demand.

CAFFEINE.—Stocks are low, and it is not in demand at m.750 for pure.

CAMPHOR.—Japanese slabs have declined to m.135, at which they deserve attention in view of the new circumstances.

CITRIC ACID.—The approach of spring has caused an advance to m.60 for home and m.62 for export.

COUMARIN.—Makers having reduced the price to m.300, its value has declined considerably. Nevertheless, it is still obtainable below factory price at m.280 for home and m.300 for export.

CREAM OF TARTAR (98/100 per cent.).—Makers have not followed the dealers' cheap offers of m.30 for home and m.32 for export. In view of the new circumstances this price deserves attention, since the factories are situated in the occupied territory.

ERGOT has declined to m.135.

GLYCERIN is in constant demand, and the price has declined slightly to m.31, and for April deliveries to m.26.

HELIOTROPINE has been only in slight demand, in spite of its reduced price of m.300.

HEXAMETHYLENETERAMINE has been in considerable demand at m.150.

HYDROQUINONE is becoming firmer at m.110 for home and m.115 for export owing to depletion of stocks.

LYCOPodium.—Genuine can only be obtained in the smallest amounts from the various producing sources, so that regular orders can only be partly filled.

MENTHOL.—Current orders serve to maintain the price, therefore spot menthol in orders for original cases commands m.700, for delivery at short notice m.680; broken bulk is charged at m.725.

MILK SUGAR was in demand at m.26.50; broken bulk m.27.50.

PHENACETIN, owing to unloading, has declined to m.125, at which price it is in demand. Export price is m.150.

PHENOLPHTHALEIN had dropped to its lowest figure at m.45, but recovered to m.60 for home and m.70 for export, and appears to be likely to advance still further.

POTASSIUM BROMIDE is scarcely in demand for the home market, but is being purchased freely by foreign buyers. Granular is quoted at m.15, and crystals, which are scarce, at m.16.

POTASSIUM PERMANGANATE has declined considerably, and deserves attention at m.33 for home and m.37 for export.

POTASSIUM SULPHOGUAIACOLATE has been in demand at m.185 for home and m.200 for export.

QUININE HYDROCHLORIDE.—Small stocks are available at m.1,600 for home and m.1,650 for export.

RESORCIN.—Fino white is quoted at 15.200, slightly reddish m.175; price for export is by m.25 higher than the foregoing.

SALICYLIC ACID is below factory price at its present quotation of m.25 for home and m.27 for export.

SENEGA is occasionally in demand at m.150.

SILVER NITRATE.—Stocks appear to be diminishing, and speculators have no reason to rejoice; now quoted at m.720.

SODIUM BENZOATE.—Small amounts only have been sold at m.35 for home and m.40 for export.

SODIUM SALICYLATE is very scarce at m.44.

STROPHANTHUS.—Older stocks are being cleared at a loss at m.38.

TARTARIC ACID.—The demand has increased appreciably, and at its present prices it deserves attention, particularly since the factories which produce tartaric acid are situated within the occupied territory. For Germany, m.37 for powder, m.35 for granular, and m.40 for crystals. For export, powder and granular m.40, and crystals m.45.

THEOBROMINE SODIO-SALICYLATE is unchanged at m.500.

VANILLIN.—We are not only keeping pace with makers, but are able to offer in many instances at advantageous prices. Quotations on request.

German Potash for America.

THE "Deutsche Bergwerks Zeitung" of February 19 publishes a report that the Potash Syndicate intends meeting America half-way in regard to the sale of potash. The unsold stocks of potassium chloride in America amount to 20,000 tons. A further 29,000 tons, valued at 47,421,400m., is lying at German harbours ready for despatch. In order to put an end to the dispute concerning the "Baissé clause" the German Potash Syndicate intends to deliver 40 per cent. of the amount of potash already delivered at a rate far below that agreed upon for the old contracts. Owing to the depreciation of the American exchange, large sums of money have been lost on the 20,000 tons lying in America, the value of which is estimated at \$1,043,357, and the German Potash Syndicate by these supplementary deliveries wishes to make good to a certain extent these American losses, in order to create a new basis for trade.

Alsatian Potash Company.

THE February 19 issue of the "Deutsche Bergwerks Zeitung" reports that a share company of the Upper Alsatian Potash Mines (Société des Mines de Potasse du Haut-Rhin, Société par actions à Mulhouse) has just been formed, the object of which is the industrial and commercial exploitation of the potash mines in Alsace. The aim of the company will be the acquisition and utilisation of all mining concessions of potassium salts, the acquisition of all mines or works, whether they belong to a company, private person, or State; the participation in all similar and associated concerns, no matter in what form; and in general the co-operation of all industrial and commercial organisations which might be joined thereto. The original capital amounts to 1,500,000 fr.

False Cubebs.

EXAMINATION of importations of cubebs in the United States (*Piper Cubeba* L.) has disclosed that in some instances the fruits of *Piper ribesoides* Wallr. were substituted in whole or in part for the true material. *Piper cubeba* L. may be distinguished from *Piper ribesoides* Wallr. by the smaller fruits, 3-6 millimetres in diameter, by the shorter stemlike extensions, 5-7 millimetres in length, and by the crimson-red coloration given when treated with concentrated sulphuric acid. The fruit of *Piper ribesoides* is from 5 to 8 millimetres in diameter, has longer, somewhat flattened and curved stemlike extensions, up to 13 millimetres in length, and gives a brownish coloration when treated with concentrated sulphuric acid. There are stone cells in both the outer and inner layer of the fruit coat in both species. Those in the inner layer of *Piper cubeba* are radially elongated, while those of *Piper ribesoides* are generally isodiametric. The U.S.P. requires that cubebs contain not more than 5 per cent. of stems or other foreign matter. The Bureau of Chemistry recommend the exclusion of any shipments of so-called cubebs found to contain more than 5 per cent. foreign matter, including the fruits of *Piper ribesoides* Wallr. and any other material, except as definite evidence is furnished that the product will be and is used by a manufacturing firm for a purpose which in no way implies that it is the Pharmacopoeial article.

Cameroon Soya-Bean Varieties.

Four varieties of soya beans have been submitted for experimental purposes to the Hamburg Institute for Applied Botany, in order to ascertain which kind is the most advantageous to cultivate. The variety designated as "Pingen" is probably derived from *Soja hispida platycarpa* var. *melanosperma* H., while that known as "Cloud" is classed botanically as *Soja hispida tumida* var. *atrosperma* H.; the varieties called respectively "Haberlandt" and "Swan" being derived from *Soja hispida tumida* var. *pallida* Roxb. From the tables prepared by Grimme, it is apparent that the black beans—i.e., the varieties designated as "Cloud" and "Pingen"—contain the highest percentage of oil, viz., 17.34 and 17.25 per cent. respectively. On the other hand, these seeds are lighter than those of the other two varieties, 1,000 seeds of each variety weighing 113.45 grams for "Cloud," 110.45 grams for "Pingen," as compared with a weight of 179.88 grams in the case of "Haberlandt" and 200.83 grams for "Swan." The cultivation of the white seeds is to be recommended, in spite of their lower content of oil.

"Jim" Retires.

THE London wholesale and export drug-trades will learn with regret that they are to lose the services of their old and valued friend, Mr. James Weare, foreman of the Cutler Street drug warehouse of the Port of London Authority, who is to be placed on the retired list from April 5. Mr. Weare has completed fifty years' service with the Port of London Authority and its predecessors. "Jim," as he is familiarly known to the trade, was "educated" in drugs under the eye of his late and respected father (Mr. James A. Weare), who was in the employ of the old East India Dock Co. at Fenchurch Street and Crutched Friars warehouses for forty years. "Jim" had already had twenty years' experience in the handling of drugs when he succeeded to his father's position as foreman in 1890. He had thus acquired a sound knowledge of the quality of crude drugs, and his services as an expert were freely drawn upon and given without stint on view days. Indeed, many a buyer has been saved from making a false step by the exercise of "Jim's" superior knowledge in pointing out where the "nigger in the woodpile lay" in, say, a case of dragon's-blood or a bale of ipecacuanha or sarsaparilla. Mr. Weare will carry with him the good wishes of his many friends in the drug-trade, and we may add that none regret the severance more than he does. He will, however, not quite lose touch with drugs, as he has two sons, one with a broker and the other with a merchant. Mr. Weare, in his retirement, will be able to devote himself to his pet hobbies—poultry and gardening—like his father before him.



"JIM."

BERGAMOT OIL OF ROOT!—The official organ of the Pharmaceutical Society (March 19, p. 223) quotes the report of a U.S. Commercial Attaché in Rome, taken from the "Journal of the Royal Society of Arts" on essence of bergamot, in which the following remarks are made: "Bergamot belongs to the Rue family, and the product of the distillation of the root of the plant is known as essence of bergamot." Further on the words again appear, "Bergamot root." Who told the U.S. attaché that? How did the "Journal of the Royal Society of Arts" come to pass it? Does Bloomsbury Square learn materia medica, or does it ignore ol. bergamot, because the oil is not official, and not included in the curriculum?



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Drugs in Dysentery.

SIR,—I have just received the following official instructions for the "Mist. Simarubæ et Granati," to which several *C. & D.* correspondents have referred:

Ministry of Pensions,
Tropical Disease Clinic,
Cheltenham Terrace,
King's Road, Chelsea, S.W. 3.
Date....., 1920.

NO. 3 MIXTURE.

To MESSRS. BOOTS.

From

For MR.

MIST. SIMARUBÆ ET GRANATI.

Pulv. simaruba	...	...	...	5 parts
Pulv. granati corticis	...	...	...	3 parts
Pulv. cinnamomi	...	...	...	1 part
Aquæ	...	...	...	100 parts

Mix the powders and make into a paste with some of the water; rub down well, and add the rest of the water; transfer to suitable vessel and bring to the boil; simmer gently for half-an-hour, and strain through coarse muslin.

Stand for twelve hours. The mixture should now measure 100 parts, and the deposit should occupy the lower 40 parts of the whole. Shake well, and add pulv. tragac. co., 10 gr., mixed with spirit. chlorof., 10m., to each ounce of mixture; shake vigorously.

On standing, not more than 10 parts should be clear after two hours.

Dose: 1 oz. (two tablespoonfuls) in water three or four times daily after food.

Please supply for — weeks.

.....
Consultant in Malaria.

It will be seen that the formula is different from that given in Castellani's "Manual of Tropical Medicine," quoted by "M.D., L.P.S.I." in the *C. & D.* I understand that the mixture is being largely prescribed in the Tropical Diseases Clinic, and that it has given excellent results. It is, however, obviously a very troublesome compound to prepare, and unpopular with the pensioners, as it is difficult to take.

Yours very truly,

AN INDIAN PHYSICIAN (24/3).

The Chemist's Window.

SIR,—I was much interested in your Manchester correspondent's note on the commendable novelty in window-dressing which he has described. I join issue with "Xrayser II." and am at a loss to understand his line of reasoning in suggesting that a display of the purely professional paraphernalia of our art should "smack of charlatantry." May I suggest that he has misused the term "charlatantry," which is an adaptation of the Italian *ciarlatare*, signifying "to prate." The word is merely an Italian equivalent for the good old English noun "quackery." Now "quackery" and "charlatantry" both signify "the boastful pretension to knowledge or skill not possessed." How can "Xrayser II." reconcile the term he has used with the display by a craftsman of the legitimate tools of his trade? The apothecary has displayed in his window from time immemorial the carboy and what we used to call in Ireland the "specie jar," and in my "prentice days" it was customary actually to display drugs, such as cinchona bark, poppy-heads, and carrageen moss, in the windows; yet my master was "L.A.H."—therefore, of course, a registered medical practitioner—so he could hardly be accused of quackery. Remembering the dignity of that old Medical Hall and its windows, the modern chemist's window makes

me weep and sometimes despair of the future of the craft I love so well. The "window offers" by various firms are nothing more nor less than rentals of chemists' windows on terms for the display and advertisements of secret remedies or toilet preparations. I don't say a word against chemists doing this if they find it really pays, but isn't the dispensing display preferable? I have lately walked down the main thoroughfare of a provincial town and then strolled along two London streets. I looked in at some dozen chemists' windows, but in most cases it would have taken a person not in the trade some time to have "spotted" that some of the chemists' windows were pharmacy windows at all. Anything and everything was displayed in them except "remedies"; indeed, the chemists' windows were less "professional" than those of a couple of herbalists and a certain kind of "specialists," which were filled with "remedies" and "surgical appliances" of a sort. In some pharmacy windows the carboys were absent, and where they were retained they were hidden in a maze of cameras, hair-brushes, vacuum flasks, and the like. Chemists have striven so hard to divest themselves of the professional side of their work that it is little wonder that you have unqualified persons loudly proclaiming themselves in the medical Press as the only persons "statutorily qualified to practise professional pharmacy." I am cheered up by the action of our far-seeing Lancastrian fellow-craftsmen, and I hope that history will repeat itself in pharmacy as in politics, and that "what Manchester does to-day, London will to-morrow."

Yours sincerely,

AN IRISH APOTHECARY (25/3).

The Index-Number of Cost of Living.

SIR,—The observations of "Xrayser II." on the index-number for the cost of living are interesting as showing how a Government department takes what is more or less an isolated figure for a short period and applies it generally for all time. The 16 per cent. for rent and rates seems to be very low, even for pre-war days, as there was very little decent accommodation available under 8s. 6d. a week, and this gives nearly 25 per cent. on an income of 36s.; again, the 60 per cent. for food is too high, and it would be more satisfactory to have a little more detail. I append a percentage list of my expenditure for myself (and wife) as an outdoor assistant in 1920, not taken from one week only, but for the whole twelve months. It is as follows:

Rent, rates and taxes	...	...	30 per cent.
Gas and coal	...	...	7 " "
Insurance	...	...	3 " "
Food	...	...	30 " "
Clothes, boots, and linen	...	...	10 " "
Holidays	...	...	8 " "
Papers, stamps, subscriptions,	...	...
etc.	...	...	4 " "
Doctor and dentist	...	...	1 " "
Savings	...	...	7 " "

100

It will be seen that rent and rates have crept up to 30 per cent. of the total, and a further rise is due this summer; this shows a figure nearly double the one "Xrayser II." mentions. Food is also 30 per cent., and was plain but good. Gas and coal at 7 per cent. are nearly equivalent, but are likely to rise, while clothing at 10 per cent. is nearly the same, although this figure is not really adequate, as neither the amount nor the quality was up to our pre-war standard. Holidays at 8 per cent. show our only luxury, although this includes a fortnight's summer holiday and all bus and train fares. The 7 per cent. savings was only effected by a drastic cutting off of all forms of amusement, no theatres, concerts, or any of the occasional outings we indulged in before the war, so that although our yearly budget showed a balance on the right side, as "Xrayser II." says, there is no room to reduce wages in pharmacy at present, and I for one could still do with a considerable rise to live as I did in pre-war days.

Yours faithfully,

UNDER THE STANDARD (18/3).

Pears' Trade Policy.

SIR,—Mr. W. E. Booth's statement to the Thames Valley Pharmacists' Association (*C. & D.*, March 19, p. 71) that the sales of Pears' soap had increased six times, shows that price-protection is as profitable to the manufacturer as it is to the retailer. I am sure that the increased sales, following on a fixed price ensuring the retailer a decent profit, must have been an eye-opener to the directors, and it is to be hoped that other manufacturers who have up to now stood out on this question will take the lesson to heart. One of the greatest fallacies that ever existed is the familiar retort that "It is our advertising that sells"; it may do to a certain point, but a retailer who knows his work can sell a lot or a little according to his interest in doing so, and if there is not a living profit on one article he will take up another. And in this matter the retail pharmacist has it all in his own hands, as the big stores, in spite of their names being appended to newspaper advertisements, never utilise their windows for displaying other people's goods, but reserve them for their own specialities. Another helpful matter, in which I see Messrs. Pears are to the fore, is the invitation of pharmacists to see over works, and it is a practice I should like to see extended. No, I am not asking for a cheap day out; I like to know and see for myself how the goods that I sell are made and turned out, and I can then talk to my customers with an intelligent knowledge of the article, and when a customer listens to such a description he is impressed with the fact that I know all about it, which is to the manufacturer's benefit as well as my own.

Yours faithfully,

SAPONROUTING (21/3).

Union Among Assistants.

SIR,—I read every week in the *C. & D.* of the promotion of union among the master pharmacists, and am left wondering what has become of union among assistants. Some two or three years ago there was a strong and growing movement, under the able leadership of Mr. Fullerton, of Manchester, when the National Association of Chemists' Assistants gave promise of becoming a powerful and useful organisation. Just when success seemed assured our leaders decided to throw in their lot with another union, and with what result? I feel that we have not been treated fairly, and would like to ask the question: Does Mr. Fullerton or any other member of the combined executive intend to do anything for his old supporters, or are we to be left to drift into other unions, which, although not confined to chemists' assistants, are only too willing to receive our subscriptions and get us into their fold. I think all chemists' assistants will agree that these "multiple unions" are not the ones best suited to cater for the needs of our craft, and yet every day they are drifting into such camps for the want of a strong lead in our own. What has happened to our leaders?

Yours faithfully,

BRISTOLIA (14/3).

The Business Side of Pharmacy.

SIR,—In Mr. Harold Miller's address on "The Business Side of Pharmacy" to the Bradford Pharmacists' Association (*C. & D.*, March 19, p. 69), it is stated that chemists would have to conform to the rules of American store trade, and one rule was that wages ought not to be more than 10 per cent. of turnover. This may be a good figure for the working of a chain of multiple shops, but I cannot see how it can be applied to a small retail business. Take as an example a shop having a yearly turnover of 2,000*l.*, 10 per cent. of this is 200*l.*; if the proprietor pays himself 4*l.* a week, the total wage bill is swamped, and I cannot think that any man takes 40*l.* a week without some sort of assistance, even if it is only an errand-boy. If we look at it from another point of view, a business returning 2,000*l.* a year should average a gross profit of about 30 per cent., or, roughly, 700*l.*, so that if the owner takes 200*l.* as salary, and, say, 150*l.* for rent, rates, etc., it still leaves 350*l.* over. Let us suppose he has 1,500*l.* invested, then another 150*l.* would pay him a 10 per cent. dividend on his capital, and he still has 200*l.* left to pay for assistance. I still think that the English pharmacist can manage his business

in the way that suits his customers best, and if he cultivates the personal side his customers will always come to him. One cannot imagine a young mother wanting a little information about baby's food or teeth going into a café or candy store.

Yours faithfully,

CAFÉ NOIR (19/91).

Bottle Capacity.

SIR,—In his address to the Salford Pharmaceutical Association (*C. & D.*, January 22, p. 65) Mr. Elsdon, the borough analyst, drew attention, among other matters, to the inaccurate size of bottles. At the present time it is difficult to obtain bottles of correct capacity, and (more important still from the panel chemist's point of view) correctly graduated. Here is a little dilemma which frequently confronts the panel pharmacist. A customer hands in a 12-oz. tablespoon bottle and a script for an 8-oz. mixture, tablespoon dose. On making the mixture up to measure it is found to come somewhere about the fourteenth or fifteenth mark on the bottle. What is the best procedure—to send it out thus, the patient getting only fourteen doses instead of sixteen, or to fill up to the sixteenth mark and risk the measurement? To forestall the critics who would reply that the pharmaceutical method would be to exchange the bottle for a correct one, or to effect the sale of a medicine-glass, I would advise them to try with panel customers in a working-class locality.

Yours faithfully,

A. Q. RATE (21/1).

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

The Position of Rexallites.

Mr. Felix Bayley, son of Mr. Cornelius Bayley, chemist, Uppingham, whose early sketches first appeared in *THE CHEMIST AND DRUGGIST*, is now an undergraduate at Cambridge. In his spare time he still delights to depict the fancies that flit through his brain. The position of Rexallites after the purchase of Boots, Ltd., by the United Drug Co., is his latest sketch connected with pharmacy, although "Granta," the well-known Cambridge publication, has recently contained several dealings in a humorous manner with local happenings.

Legal Queries.

Spirit (21/3).—Both the labels you send make the preparations to which they are attached liable to medicine-stamp duty.

A. I. L. (21/2).—The "Sole-ez" footbath tablets are not recommended for any ailment and do not therefore require stamping.

J. S. W. (17/3).—Full particulars of the method of registering trade-marks are given in *The Chemist and Druggist Diary*, 1921, p. 301.

F. L. (4/3).—The words "Cures all nasal complaints" on a label constitute a claim which renders the preparation to which the label is attached liable to medicine-stamp duty.

Incog. (23/2).—The fees payable upon forming a limited company depend upon the capital of the company. Full information is given in *The Chemist and Druggist Diary*, 1921, p. 299.

Rats (27/9).—The use of the term "wholesale druggist" by an unqualified person who conducts a retail shop would, in the circumstances you mention, probably be construed as an infringement of the Pharmacy Acts.

J. R. H. (29/3).—The use of the title "wholesale chemist" by a person whose name is not on the Register of Chemists and Druggists, and who carries on a retail drug business, would be an infringement of the Pharmacy Act.

M. M. (22/3) is tenant of a combined house and shop at an annual rent of 22*l.* The landlord has just given him notice increasing the rent by 60 per cent. as from Christmas last. What should "M. M." do when he pays the quarter's rent due on March 25? [A notice of increase of rent cannot be made retrospective, and until after "M. M." has been given a month's notice, in the prescribed form, no increase can take effect. In any case, the maximum amount by which the standard rent of the premises in question can be increased is 30 per cent., with a further 10 per cent. after July 2 next. Even that increase will be reduced if "M. M." is responsible for repairs. "M. M." should continue to pay rent at the old rate until he has been given proper notice of increase for a correct amount.]

J. R. (15/3) wishes to know if there is any means of getting a licence to sell medicated wines without applying for an "off" wine licence or grocer's or other wine licence.—[No. There is no such thing as a licence to sell medicated wines. The usual course followed is for the person who wishes to sell to apply to the licensing bench for a wine "off" retail licence, and when this is granted he gives a promise or undertaking to the justices that he will sell only medicated wines under it—that is, wines sufficiently medicated to be regarded as medicines. The licence authorises the sale of wine of any kind in closed vessels in quantities not less than one reputed pint bottle and not more than two gallons or one dozen reputed quarts. But if the licensee has given an undertaking not to sell other than medicated wines, and he does not keep the undertaking, the magistrates may refuse his licence when it comes up for renewal at the annual licensing sessions.]

Caithness (12/3) has been tenant of a combined house and shop since 1912. He has sublet the dwelling portion of the premises. The rent was 40*l.* a year until 1919, when it was increased to 50*l.* by a week's notice. He has just received a week's notice again, increasing the rent to 64*l.* Is the increase excessive, and, as a quarterly tenant, is "Caithness" entitled to insist upon a quarter's notice of increase without risk of being ejected?—[For the purposes of the Increase of Rent Act, 1920, the premises are a "dwelling-house," and the protection from eviction conferred by that Act applies to them. If the premises are, in fact, held on a quarterly tenancy no increase of rent can be made effective until after the tenancy has been terminated by a quarter's notice. We assume that "Caithness" pays the rates, and, subject to this, the maximum

increase of rent at present allowed is 30 per cent. of the pre-war rent, with a further increase of 10 per cent. after July 2. That is to say, the maximum rent chargeable to-day is 52*l.*, and after July 2 56*l.* If, however, under the agreement "Caithness" is liable to do repairs, the increase referred to will be diminished accordingly up to a total reduction of 25 per cent. if he is responsible for all the repairs. No increase can be made effective unless a month's notice is given in the prescribed form. Prior to July 1920 the maximum increase of rent allowed was 10 per cent., and "Caithness" can recover any sum overpaid by him by way of deduction from future payments of rent.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

K. C. (10/3).—When mixtures of soft paraffin and paraffin wax are melted together they frequently lack homogeneity on cooling. By regulating the rate of cooling this peculiarity may often be avoided. We do not consider it a disadvantage in the sample of solid brilliantine you send.

J. J. W. (21/3).—BLOOD MIXTURE.—The following formula would be suitable for use with the label you send:

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Misce.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Mar. 15, 1871.

A Tour of France.

The late Mr. F. Harward Lescher contributed an interesting series of "Notes en Vacances" describing his visits to Paris. An explanation is given that the "copy" had been detained by the Prussian authorities, and could not be published in the previous issue. In the course of the "Notes" Mr. Lescher writes: "Le Havre seems the headquarters of a large French *corps d'armée*; the streets are full of soldiers, either in detachments or lounging about off duty. I visited the Caserne de Strasbourg (very extensive barracks), now turned into an ambulance or hospital. The beds are not too crowded, and there is, for a foreign hospital, good ventilation; but how different from St. Bartholomew's! There are here a number of *Sœurs de St. Vincent de Paul*, with the wide extending white head-dress; they seemed indefatigable. Many cases of small-pox at this hospital: I confess that this news very much shortened my visit. There is so much also in the town itself that you now and then see cases in the open streets. I saw, two days ago, a *Mobile* with the pustules strongly developed, asking his way to the hospital. Iodoform has been used, in many cases with great success, against what is known here as "Pourriture des hôpitaux," 15 to 20 grains in 4 oz. rect. alcohol, to be diluted with water to the strength required for the lotion. A remedy much used by the French doctors for throat affections, severe colds, and catarrhs, is *Kermès Mineral*. But it must be the kind as manufactured in France, an impalpable powder, velvety in appearance, and of a rich chocolate colour. It is an oxysulphuret of antimony, obtained by very slow precipitation, and is a preparation requiring a great deal of care and patience. Most of the English preparations are either golden antim. oxysulph. or powdered glass of antimony. Neither of these has that fine dust-like character that renders it so useful in affections of the throat. It may be used suspended in syrup or mucilage. *Fol. Saponaria* and *Cort. Ulmi* are used here beneficially as demulcents. *Codeia* has been in France lately often preferred to morphia; it gives the sleeping effects of the latter without the dreams that so often attend its use. *Codeia* and morphia can be used in the same doses."

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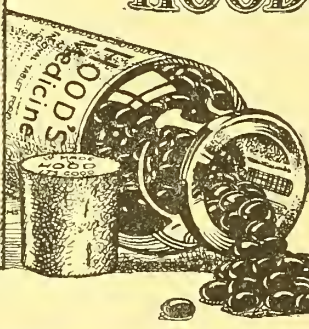
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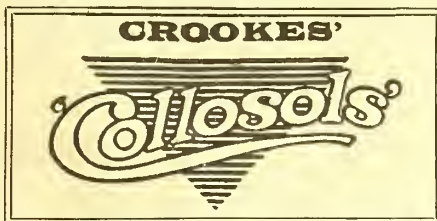
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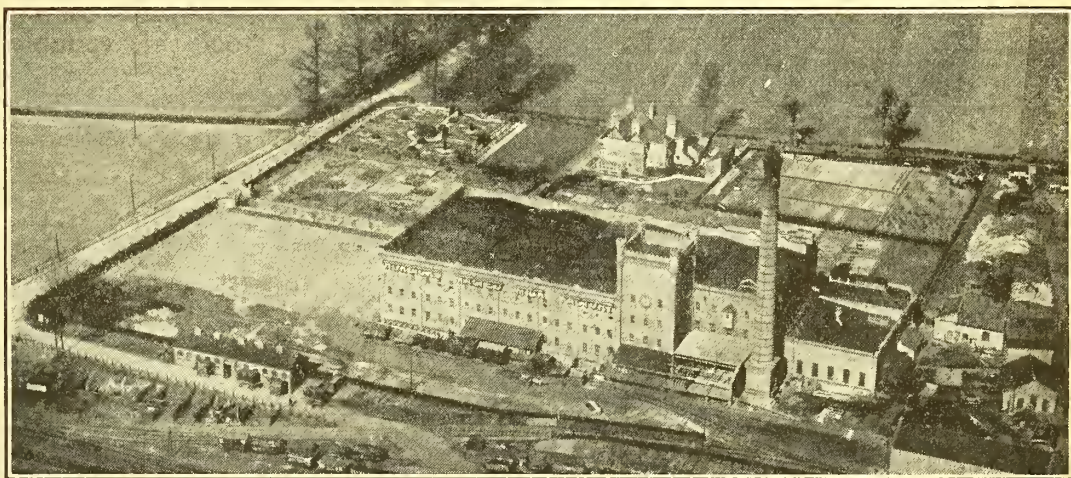
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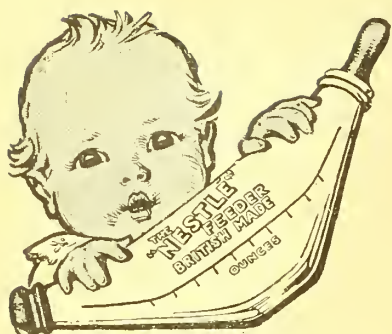
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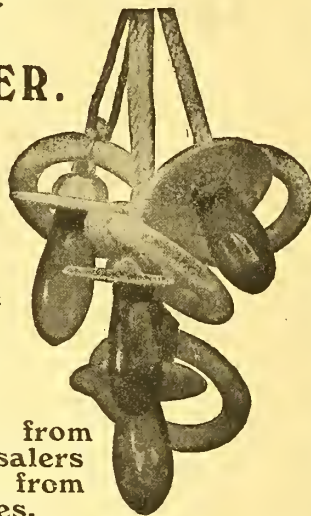
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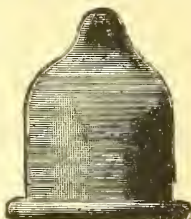
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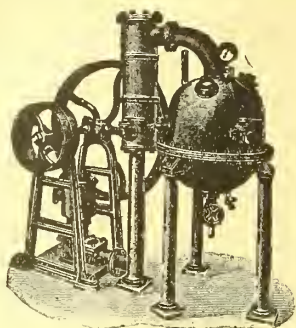
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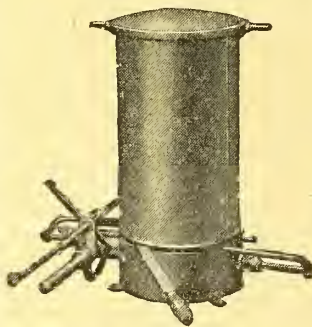
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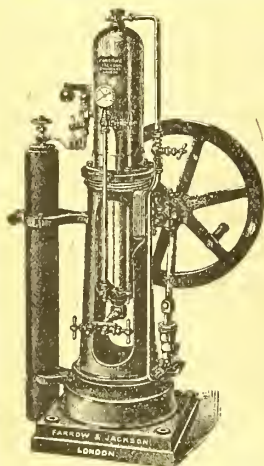
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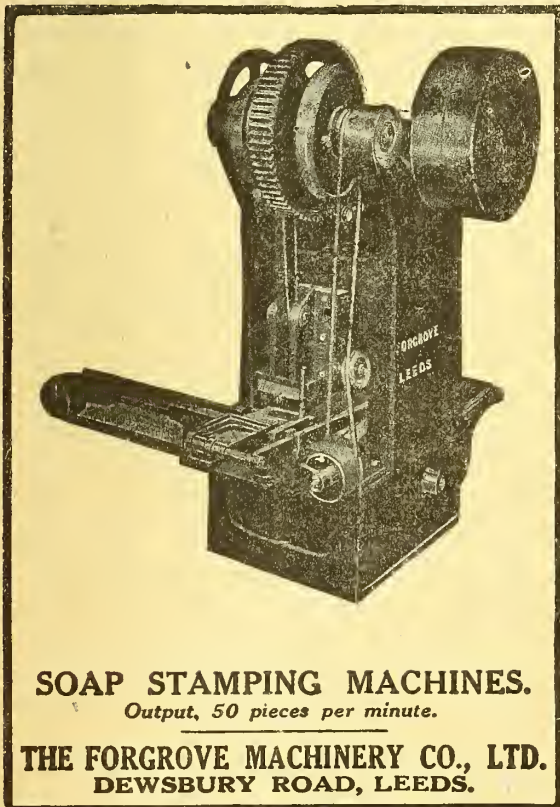
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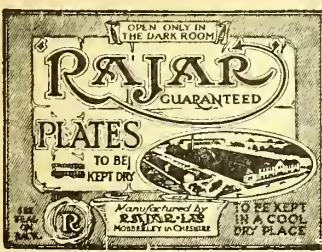
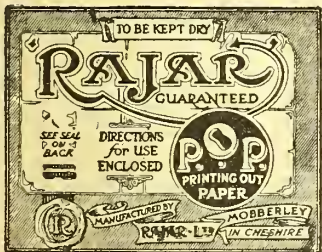
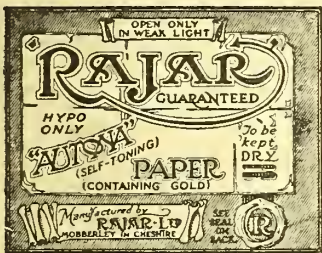
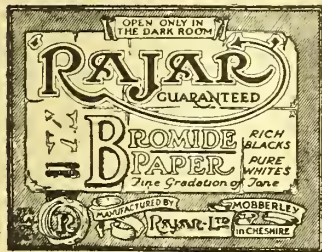
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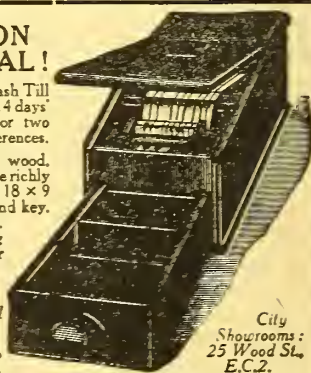
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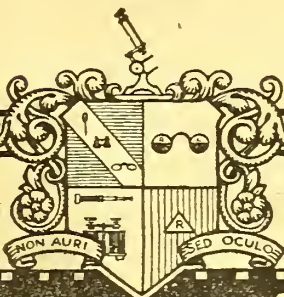
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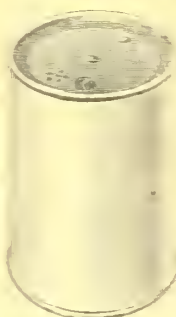
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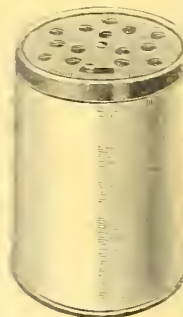


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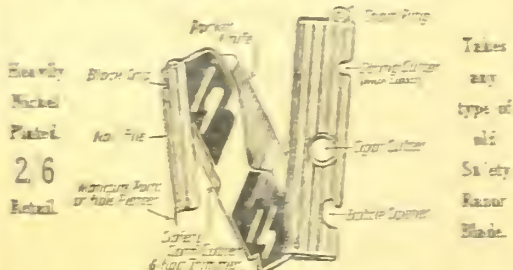
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